

INDEX OF PUBLICATIONS



2009

WALTER REED ARMY INSTITUTE OF RESEARCH

INDEX TO PUBLICATIONS

2009

Table Of Contents

1. Preface	ii
2. Some Major Accomplishments	iii
3. Journal Articles	1
4. Abstracts	22
5. Book Chapters	44
6. Technical Reports	45
7. Patents	46
8. Author Index	47
9. Title Index	68
10. Subject Index	72

PREFACE

About the Walter Reed Army Institute of Research

The Walter Reed Army Institute of Research (WRAIR) is the largest and most diverse, as well as the oldest, subordinate laboratory of the U.S. Army Medical Research and Materiel Command (USAMRMC). WRAIR is also the largest biomedical research laboratory within the Department of Defense (DoD) and the oldest public health and preventive medicine Institute in the United States. WRAIR is transitioning to the Center for Infectious Disease Research and Center for Military Psychiatry and Neuroscience. WRAIR is the DoD's lead agency for infectious disease research and a crucial source of research support for medical product development. WRAIR's resources include a state-of-the art laboratory facility in Maryland that was dedicated in September 2001 to Senator Daniel K. Inouye. The WRAIR also supports laboratory and clinical facilities in Asia, Africa, and Europe. Our greatest resources are the dedicated scientists, technicians, and support personnel who make up the core of the WRAIR today. Currently, WRAIR consists of fourteen research divisions and twelve support divisions in association with the Maryland headquarters, as well as a total of five research detachments, two within the United States and three overseas laboratories.

The WRAIR is the DoD's premier biomedical research facility which focuses on the health and medical readiness of U.S. military personnel while supporting global health efforts. The WRAIR fulfills its mission by conducting innovative basic and applied biomedical research and development technologies to: 1) prevent, diagnose, and treat infectious diseases; 2) treat combat casualties; 3) prevent and minimize operational stress and health hazards; and 4) protect and define treatment for exposure to biological and chemical threat agents. Thus WRAIR specializes in biomedical research in the scientific and engineering disciplines of microbiology, parasitology, virology, biochemistry, immunology, molecular biology, entomology, pathology, psychiatry, veterinary studies, pilot bioproduction, clinical testing, vaccine development, therapeutics discovery, blood product development, and preventive medicine. The staff is roughly 30% each military, civilian and contract staff, equally divided between scientific and support personnel. Important organizational components of the WRAIR are the special field activities in Thailand, Kenya, and Germany. Research and support functions at the overseas labs are closely coordinated with efforts at the main facility near Washington, D.C.

WRAIR primarily works at the applied research and pre-development level, but the Institute is also intimately involved in product development with the United States Army Medical Material Development Agency (USAMMDA), Ft. Detrick, MD. By chairing/ serving on scientific steering committees, WRAIR scientists provide the technical guidance required for rational development of its technology-based products. Indeed, many products are developed and tested at the WRAIR Special Field Activities.

WRAIR's efforts are not limited to research; WRAIR was originally founded in 1893 as the U.S. Army Medical School. It continues to be a center of learning through the military preventive medicine residency, a military medical research fellowship program, and short courses in tropical medicine, veterinary medicine and other subjects. Many of our post-doctoral fellowships bring outstanding young scientists to the Institute.

The vertical integration which marks WRAIR's structure has been present from the beginning. Just as Major Walter Reed did his outstanding work on yellow fever as a member of the first faculty, the Institute today still has the capability of identifying a threat, determining its cause, designing an answer, testing it under actual field conditions, and teaching others to use the results.

SOME MAJOR ACCOMPLISHMENTS

WRAIR ACCOMPLISHMENTS

- 1893 Establishment of WRAIR
1898 Discovery of typhoid transmission
1900 Discovery that Aedes mosquitoes transmit yellow fever
1906 Identification of the parasite for amebic dysentery
1910 Proven that eating polished rice leads to Beriberi
1913 Discovery of the treatment for amebic dysentery
1931 Began studies on dengue infection, leading to development of first vaccine
1933 Atabrine is introduced for combating malaria
1940-45 Creation of first system of blood banking, storage, and use
1950 Elucidation of ecology of Japanese encephalitis virus
1952 Discovery that Leptospira infection caused Fort Bragg Fever
1952-53 Identification that the majority of adenovirus infections are caused by types 4 & 7
1953-57 Discovery of the pathophysiology of tropical sprue
1955-60 Development of gastrointestinal biopsy capsule
1956 Development of adenovirus types 4 & 7 vaccine
1957 Isolation of Asian Influenza virus
1961 Co-discovery of rubella virus
1968 Development of types A and C polysaccharide vaccine for meningitis
1967-69 Development of live oral vaccine for adenovirus type 7
1969 Discovery of tropical canine pancytopenia
1971 Development of first mass screening method for heroin
1981 FDA licenses vaccine for meningococcal meningitis
1982 Began work for world's first promising malaria vaccine
1985 Testing of Havrix, a vaccine for hepatitis A
1989 Mefloquine, an antimalarial drug, licensed in the U.S.
1990 JEV vaccine field trial
1992 Approval of JEV vaccine by FDA
1995 Licensure of Havrix by FDA
1998 Development of "Stay Alert" caffeine chewing gum began
2000 Malarone, a new anti-malarial drug, licensed in the U.S.
Development of fibrin bandages
2001 Development and testing of prototype Ebola virus vaccine
2003 Testing at WRAIR led to usage of the "Golden Hour" blood container on the Battlefield
Stay Alert" gum is added to First Strike Ration for use in Iraq and Afghanistan
2004 RTS,S is co-developed -- first efficacious malaria vaccine
Trials begin for intravenous Artesunate, a new antimalarial to replace quindine
2005 Approval of "Stay Alert" caffeine chewing gum for First-Strike rations
Development of "Battlemind" program
2006 Began studies on mild TBI
2007 MHAT report establishes efficacy of "Battlemind"
Intravenous Artesunate available on Compassionate Use in the United States
2008 Approval of new JEV vaccine by Australia
2009 FDA licensing of new Japanese Encephalitis vaccine
First HIV vaccine to show modest efficacy

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JOURNAL ARTICLES

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ABSTRACTS

ABSTRACTS

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BOOK CHAPTER

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AUTHOR INDEX

AUTHOR INDEX

- Abalos, R. M.** 9
Abdul Wahab, R. 345
Abed, A. M. 195
Abercrombie, J. J. 117
Aboud, S. 224, 235, 236, 359
Abu-Asab, M. 2
Achee, N. L. 112
Achilla, R. 334, 357, 383
Acosta, L. P. 121
Adams, E. 167
Adams, J. H. 234
Addis, M. 292
Adeeb, S. 401
Adler, A. B. 1, 199, 215
Adler, M. 182, 222, 423
Aebi, U. 87
Afsar, A. 410
Agan, B. K. 13, 110
Ager, A. 225, 314
Agoston, D. 11
Agoston, D. V. 404
Aguiar, J. C. 226
Ahlers, S. 185
Ahmadi, Z. E. 16
Ajariyakhajorn, C. 149
Akala, H. 334, 392
Akarasewi, P. 247
Akbar, N. 264
Akhvlediani, T. 273
Albright, R. G. 109
Alefantis, T. 281
Alera, M. T. P. 227, 228
Alexanian, A. 263
Ali, G. 221
Allan, J. 205
Alper, O. 2
Alter, C. L. 212
Alvarado, A. 299
Alving, C. R. 14, 134, 135, 158, 183, 184, 238, 343, 363, 414
Aly, A. S. 202
Amakawa, M. 77
Amare, M. 3
Amari, E. 32
Ambrozak, D. R. 68
Amnuaysirikul, J. 374
Amwayi, S. 303
Anam, K. 3
Anantapreecha, S. 247
Ananworanich, J. 201
Anathakrishnan, M. 233
Anders, R. 284
Anders, R. F. 290
Anderson, K. B. 193
Andres, D. K. 229
Andrew, C. 290
Andrew, C. P. 155
Andrews, K. A. 107
Andrist, J. R. 305, 306
Anez, G. 4
Angov, E. 19, 20, 151, 162, 181, 230, 240, 263, 267, 281, 315, 361
Anova, L. 262
Anyamba, A. 5, 231, 268, 333
Anyonje, E. 396
Apollo, O. J. 151
Apollo, S. 164
Applebee, L. 145
Aris, E. A. 235, 236
Ariyannur, P. S. 232
Armonda, R. 11
Armour, C. 393
Arnaud, F. 185
Aronson, N. E. 233
Arroyo, M. 324
Arroyo, M. A. 6, 371
Arun, P. 232
Ascherio, A. 132
Asher, C. 262
Asher, L. M. 414
Asher, L. V. 145
Asher, T. E. 68
Aslanova, A. 271, 272
Assawadarachai, V. 324
Atkins, J. L. 173
Attatippaholkun, W. 153
Auliff, A. M. 234
Avila, M. M. 12
Awandare, G. A. 7, 211
Awinda, G. 131
Azizan, A. 405
Baba, M. M. 118
Babrzadeh, F. 118
Bacigalupo, Y. 276
Bacon, D. J. 299
Baek, L. J. 154
Bagirov, S. 271, 272
Bahri, O. 118
Bai, Y.8
Bakanidze, L. 37

- Bakari, M.** 224, 235, 236
Bakhishova, S. 271, 272
Balagon, M. F. 9
Balbir, A. 237, 337
Balkin, T. J. 17, 82, 99, 100, 101, 160, 166, 170, 275, 318, 319, 365
Ballou, R. 339
Ballou, R. W. 164
Ballou, W. R. 26, 97, 151, 181
Bandak, F. 11
Bandak, F. A. 404
Bandara, A. B. 10
Bansal, R. 15
Baqar, S. 145
Barbara, K. A. 59
Barclay, D. 198
Barkley, J. E. 90
Barmada, M. 352
Barnes, S. L. 156
Barnhart, R. 372
Barnwell, J. W. 54
Barrett, A. 192
Barry, E. M. 67
Bartels, J. 198
Barthel, R. V. 110
Bartkus, J. M. 118
Barvir, A. 399
Barvir, D. 276
Barvir, D. A. 191
Batchelor, A. 284
Batchelor, A. H. 54
Bathurst, I. 291
Bauer, K. 243
Bauman, R. 297
Bauman, R. A. 11, 104, 123
Bautista, A. 121
Bautista, C. 412
Bautista, C. T. 6, 12, 13, 30, 146, 321
Baxter, M. C. 301
Bayat, B. 410
Bayir, H. 297
Baynard, T. 60
Beaty, B. J. 124
Beboso, R. 113
Beck, Z. 14, 134, 135, 238, 343
Bedno, S. 334, 392
Bedno, S. A. 147, 277, 415, 427, 428
Beebe, J. L. 124
Beebe, S. 264
Beeckley, A. C. 155
Bekker, L. G. 180
Bell, B. 141
Bell, B. A. 15
Bell, C. A. 117
Bell, R. 11
Bellar, D. 89
Ben Alaya, N. 16
Ben Massoud, N. 16
Ben Salah, A. 16
Benante, J. P. 112
Benenson, J. D. 239
Benenson, M. 167, 313
Benenson, M. W. 367
Benitez, P. L. 17
Bennett, K. 291, 378
Benson, P. 233
Bentley, T. 198
Bentley, T. L. 123
Benton, B. 229
Benton, B. J. 69, 70
Benzinger, T. L. 18
Berenzon, D. 323
Bergmann-Leitner, E. 2, 181, 361
Bergmann-Leitner, E. S. 19, 20, 162, 230, 240, 281, 315
Birmingham, E. 335
Bernstein, W. 233
Besser, J. M. 118
Bethel, D. 382
Bethell, D. 241, 269, 380, 385, 407
Bethell, D. B. 332
Bettelli, E. 57
Bhatia, R. 75
Bhattacharjee, A. 115
Bhattacharjee, A. K. 21, 425
Bhattacharya, T. 108
Bhonsle, J. 242
Bhonsle, J. B. 115, 353
Bhumiratana, A. 85
Bi, D. 113
Bi, S. 22
Biberfeld, G. 73, 224, 235, 236, 359
Bickersmith, S. 335
Biggs-Cicatelli, S. 96
Bii, M. 111
Billiar, T. R. 173
Binley, J. 144
Birnberg, L. 335
Birungi, J. 180
Birx, D. 23
Birx, D. L. 6, 56, 167
Bittner, S. 181
Black, C. G. 143
Black, G. 310, 391
Blackbourne, L. H. 155

- Blanchard, T.** 205
Blanco, J. C. 24
Blaylock, J. M. 25, 243
Bledsoe, G. H. 424
Bliese, P. D. 1, 170, 215, 302
Blinkova, O. 118
Blitvich, B. J. 124
Bloom, S. 197
Boaz, M. 180
Bodhidatta, L. 244
Bojang, K. 26
Bollinger, R. C. 108
Bolton, J. 226
Bombard, M. 388
Bombard, M. C. 389
Bonhage, M. R. 27
Boodoo, R. 225
Boonnak, K. 28, 187, 414
Bose, M. 376
Botros, B. A. 196
Bourgeois, A. L. 67
Bovill, M. 308, 396
Bovill, M. E. 245, 384
Boylan, M. 32, 44
Boyle, K. 281
Boyle, S. M. 10
Bradfield, A. 376
Braig, H. 204, 298
Brando, C. 87, 312
Brasov, I. E. 349, 350
Brater, D. C. 113
Braun, A. R. 82, 160, 275, 365
Brave, A. 73, 235, 236
Breiman, R. 231, 303
Brion, J. D. 121
Britch, S. C. 5, 231, 333
Britt, T. W. 139
Broder, C. C. 24
Brodie, T. 265, 294
Brody, D. 18
Bronesky, D. 276
Brown, A. W. 145
Brown, B. K. 14, 165, 246, 285, 417
Brown, T. L. 169
Brown, T. S. 78
Bruder, J. 400
Bryson, M. 246
Buathong, N. 382
Buathong, R. 247
Bucala, R. 7
Buchbinder, S. 376
Buczak, A. L. 268
Buffet, P. A. 16
Bukbuk, D. N. 118
Bulimo, W. 357, 383
Bulimo, W. D. 207
Bullock, M. R. 75
Buma, D. 235, 236
Bunnik, E. M. 165
Burgess, T. H. 187, 191
Burgos, J. A. 9
Burke, D. S. 47, 408, 409
Burkhard, P. 87, 312
Burkom, H. 197
Burks, R. 127
Burton, D. R. 180
Butera, S. T. 108
Byers, S. 2
Cabrera, O. A. 215
Caci, J. B. 248
Cadd, G. 168
Cahill, C. P. 164
Calderon, F. S. 249
Campbell, A. 21
Campbell, A. J. 249, 250
Campbell, T. M. 117
Campos, L. J. 299
Canas, L. C. 152
Cantilena, L. R. 113, 119, 351
Cao, J. 251
Cao, Y. 337
Capeding, R. Z. 121
Cardin, S. 18
Cardo, L. J. 29, 252, 253, 254, 255, 256, 257, 258, 259, 260, 283
Cargo, J., 3rd 15
Caridha, D. 214, 261
Caridha, D. P. 353
Carlson, M. 381
Carr, J. K. 196
Carr, W. 275
Carr, W. S. 82, 365
Carrington, M. 200, 206
Carrion, A. G. 30
Carroll, D. 262, 310, 346, 353, 391
Carroll, E. 401
Carrow, E. 180
Carter, J. 263
Carter, R. 46
Casares, S. 31
Cash, B. 25
Casimiro, D. R. 376
Casimiro, P. N. 46
Castillo, M. 30
Castro, C. A. 1, 80, 81, 139, 215
Castro, F. 288

- Cavicchia, M. A.** 277, 415, 427, 428
Cellona, R. V. 9
Celluzzi, C. M. 187
Cerone, C. 123
Chaichana, P. 377, 407
Chaikummao, S. 324
Chaitaveep, P. 270
Chalom, I. 393
Chan, A. S. 42
Chanda, S. 32
Chang, T. T. 264
Chantakulkij, S. 320
Chanthap, L. 332
Chao, C. 92
Chao, Y. C. 264
Chatmon, S. 352
Chattpadhyay, P. 294
Chattpadhyay, P. K. 265
Chavko, M. 401
Che, M. M. 32, 44
Cheah, P. Y. 341
Chelimo, K. 51
Chen, J. 33, 57, 393
Chen, K. 107
Chen, P. 72
Chen, R. W. 125
Chen, Z. 34, 389
Chen, Z. Y. 266, 279
Chenault, M. V. 413
Cheng, Q. 234, 405
Chevillon, C. 109
Chia, V. M. 35
Chilcoat, C. D. 27
Chilukuri, N. 36
Ching, W. M. 92
Chinnawirotisan, P. 53
Chitadze, N. 37
Chiu, J. 167, 320
Chluaydumrong, A. 410
Choi, Y. K. 38
Chokephaibulkit, K. 149
Chokheli, M. 37, 273
Chon, T. W. 95
Chong, S. T. 102, 154
Chonwattana, W. 324
Chotivanich, K. 38
Chowdhury, D. R. 267
Chretien, J. P. 5, 39, 136, 231, 268
Chrisman, W. 129
Chua, A. 374
Chuang, I. 269, 400
Chuenarom, W. 280
Chuenchitra, T. 148, 270
Chunsuttiwat, S. 167
Clark, D. V. 37, 106, 271, 272, 273
Clark, J. W. 59, 333
Clark, R. S. B. 297
Clarke, D. L. 34
Clayton, J. 263, 284
Clements, D. 276
Close, D. 174, 386
Close, N. C. 112
Co, E. M. 40
Coban, C. 46
Coberly, J. 274
Coddington, N. 275
Coetzer, M. 144
Cohen, J. 26, 97, 151, 164, 181, 339, 402, 410
Cohen, J. D. 162
Cohen, M. S. 206
Colacicco-Mayhugh, M. 41
Coldren, R. L. 334, 392
Coleman, G. D. 22
Coleman, R. 344
Coleman, R. E. 42, 43, 103, 406
Coller, B. A. 276
Collier, S. R. 60
Collins, W. E. 54
Colombo, S. 200
Conn, J. E. 325, 335, 348, 418
Constantine, G. 198
Conti, M. 32, 95
Conti, M. L. 44
Cooksey, J. A. 70
Coppel, R. L. 143
Corey, L. 376
Corley, J. 347
Corley, J. B. 137
Correa, M. 335
Correa, M. M. 418
Correa, M. O. 325
Cotter, C. 56
Coulibaly, D. 402
Cowan, D. N. 209, 277, 415, 427, 428
Cowman, A. F. 202
Cox, J. 73, 224, 278, 317
Cox, J. H. 56
Cox, K. 197
Crabb, B. S. 51
Crabtree, M. 45
Craft, C. 291
Cramer, D. W. 2
Crisanti, A. 312
Crispin, J. C. 33, 57

- Criss, W. E.** 2
Crossler, J. 376
Crum-Cianflone, N. 13
Crum-Cianflone, N. F. 110
Cruz, E. 9
Crystal, S. 212
Culleton, R. 46
Cummings, C. 355
Cummings, D. A. 47, 239, 408, 409
Cummings, J. 269, 354
Cummings, J. F. 97, 164, 181
Cunningham, D. 188
Curley, K. C. 18
Curran, J. E. 178
Currier, J. 56, 246
Currier, J. R. 58, 98, 105, 278, 286, 321
D'Ambrozio, J. 361
Dalle Lucca, J. 33
Dalle Lucca, J. J. 57, 177
Dally, L. 280, 317
Danaher, P. J. 156
Dang, K. K. 200
Daniels, M. G. 108
Danko, J. R. 48
Dantur, M. J. 325
Daou, M. 128, 402
Darapiseth, S. 241, 380, 385, 407
Das, R. 22
Datu, B. D. 427
Dave, J. 421
Dave, J. R. 34, 49, 125, 210, 220, 420
Dave, K. 42, 344, 406
Dave, S. 406
Davenport, G. C. 7, 211
David, D. A. 399
Davies, N. M. 61
Davis, A. 279
Davis, H. Q. 90
Davis, T. A. 3
de Araujo Furtado, M. 50
de Bakker, P. I. 206
de La Rocque, S. 231
De La Vega, P. 202, 393
de Lanerolle, N. C. 404
de Souza, M. 23, 167, 201, 278, 317, 324
de Souza, M. S. 58, 280, 285, 286,
 320
de Vlas, S. J. 181
Debebe, Z. 97
Decamp, A. C. 376
Decker, C. F. 25, 48
Degruttola, V. 201
Dehoffitz, J. 180
Delanerolle, N. 11
Dellagi, K. 16
DeLuca, P. P. 117
DelVecchio, V. 281
Delwart, E. 93
Delwart, E. L. 118
Demoitie, M. A. 164
Deng, G. M. 177
Deng, W. 376
Dennison, S. 116
Dennull, R. A. 40
Dent, A. E. 51
Deriso, E. 281
DeSonier, N. 276
Detels, R. 200
Dettrairat, S. 270
Deye, G. 354, 378
Dhakhwa, J. R. 244
Diallo, D. A. 402
Diarra, I. 128, 402
Dick, E. 205
Dickson, L. 282, 396
Dickson, S. P. 206
Diggs, C. 151, 400, 402
Diggs, C. L. 54, 181
Dimon, M. 405
diTargiani, R. 36
Dixon, C. E. 297
Dixon, C. R. 104
Dixon, D. R. 52
Dlugosz, L. 284
Dobrean, V. 10
Doctor, B. P. 32, 36, 65, 95, 189
Dodean, R. 314
Doherty, T. 26
Dolo, A. 402
Donner, M. N. 410
Donofrio, G. 86
Doolan, D. L. 400
Dorji, T. 53
Dorsey, J. 168
Dos Santos, C. L. S. 171
Douek, D. C. 68
Doumbo, O. K. 128, 402
Dow, G. 261, 291
Dow, G. S. 214, 262, 353
Dowler, M. 97, 181, 336
Dowler, M. G. 202
Downs, M. T. 16
Dreier, J. P. 75, 76
Du, F. 34
Duangchanda, T. 194
Duangurai, K. 426

- Dubey, S.** 376
Dubey, V. S. 52
Dubois, M. C. 97, 162, 164, 181, 410
Dubovsky, F. 151
Duffy, D. 266
Duffy, K. 146
Duffy, P. E. 393
Duncan, E. H. 19, 20, 230, 240, 281
Duncan, R. 283
Dunford, J. C. 333
Dutta, S. 54, 128, 162, 181, 263, 284, 290
Duyn, J. H. 82, 275, 365
Duysen, E. G. 36
Eamsila, C. 320, 370
Eamsobhana, P. 55
Earhart, K. C. 195, 196
Earl, P. 73, 235, 236, 278
Earl, P. L. 56
Echazabal, J. 350
Eckels, K. H. 4, 188
Ecklund, J. 11
Eddington, D. O. 43
Edelman, R. 188
Edgerton, C. 57
Egan, R. 57, 345
Egner, L. 339
Ekchariyawat, P. 161, 366
Eksomtramate, M. 130
El Dib, N. A. 156
El Masry, N. A. 156
Ellenberger, D. 108
Eller, L. 285, 286, 412
Eller, L. A. 56, 58, 98, 105
Eller, M. 98, 412
Eller, M. A. 58, 105, 285, 286
Ellis, B. 225
Ellis, W. 129
Elster, E. A. 78
Endy, T. 408, 409
Endy, T. P. 193, 203, 369, 395
English, R. 197
Ennis, F. A. 203, 395
Enquobahrie, D. A. 287
Epstein, J. E. 400
Erickson, R. L. 5, 35, 138
Ervin, S. 141
Espinosa, B. J. 299
Evangelista, C. 266
Evans, B. P. 59
Eyase, F. 207, 334, 392
Fabricius, M. 75, 76
Faraj, J. A. 117
Farfan-Ale, J. A. 124
Farooq, M. 333
Fast, P. E. 180
Faulde, M. K. 42
Fedders, C. 400
Feikin, D. 303, 357
Fein, H. G. 89
Fellay, J. 200, 206
Feng, Z. 61
Fernandez, S. 187
Fernhall, B. 60
Fernández, R. 288
Ferrell, R. E. 7
Figueroa, A. 60
Fisher, C. 283
Fisher, C. R. 61
Fleming, S. D. 107
Flora, C. 336
Flores-Mendoza, C. 288
Florin, D. 288
Flournoy, W. S. 27, 62, 168, 185
Flynn, M. G. 114
Foglia, G. 6
Folarin, O. A. 74
Foley, D. H. 63, 64, 289
Foley, M. 284, 290
Follmann, D. 294
Forestiero, F. 328
Formenty, P. 231
Formenty, P. B. 5
Forquer, I. 314
Foster, L. 116
Fox, M. P. 111
Fracisco, S. 354, 379
Fracisco, S. D. 291
Frahm, N. 376
Frances, S. P. 157
Francis, D. 280
Francis, D. P. 167
Francis, J. 235, 236
Freilich, D. 185
Fried, M. 393
Fritz, G. N. 325
Froment, M. T. 65
Fryauff, D. 269
Fryauff, D. J. 299
Fryer, D. 78
Fujimoto, C. 77
Fukuda, M. 241, 269, 373, 380, 382, 385
Fukuda, M. M. 130, 161, 162, 186,

- 332, 366, 377, 407
Fukunaga, M. 82, 275, 365
Fukushima, H. 218, 219
Furman, B. D. 59
Furtado, M. 375
Furtado, M. D. 292, 293, 338
Furukawa, T. 218
Gabel, F. 65
Gaines, H. 359
Galiano, R. D. 300
Ganesan, A. 110, 265, 294
Gao, Q. 251
Gao, X. 295
Gao, X. G. 374
Gaona, H. W. 115
Garcia, G. E. 179, 249, 250, 296
Garcia, V. 393
Gardiner, D. L. 234
Gardner, S. R. 353
Garman, R. 297
Garvey Wilson, A. L. 66
Garze, V. 410
Gaston, J. S. 67
Gaydos, J. C. 39, 152
Gaywee, J. 370
Gbotosho, G. O. 74
Ge, D. 206
Geib, S. J. 214
Geis, S. 371
Geldmacher, C. 68, 371
Genovese, R. F. 69, 70
Gerena, L. 71, 115, 214, 262, 301,
353, 405
Gerhardt, M. 371
Gettayacamin, M. 162, 291, 353
Geyer, J. A. 71
Ghosh, K. 204, 298
Gibbons, R. V. 47, 53, 121, 149,
163, 191, 193, 221, 239, 369,
390, 399, 408, 409
Gibbons, T. 383
Gilbert, P. B. 376
Gillfillan, L. 182
Gilliland, T. C., Jr. 145
Gilliland, W. R. 48
Gillis, A. 417
Gilmore, K. 72
Gilmore, K. D. 117
Giyasova, G. M. 196
Glickman, E. L. 90
Gnanakaran, S. 108
Godeaux, O. 402
Godoy-Ramirez, K. 359
Goldbach-Mansky, R. 2
Goldberg, H. M. 80, 81
Goldin, L. R. 35
Goldstein, D. B. 200, 206
Gong, H. 83
Gongal, G. N. 221
Gonzales, R. G. 299
Gonzalez, V. D. 58
Goodman, Z. D. 264
Gordon, J. A. 21
Gordon, R. K. 21, 32, 44, 95, 178,
179, 425
Gordon, S. 383
Gostick, E. 68
Goulopoulou, S. 60
Grady, K. K. 54
Graf, P. 361
Graf, P. C. 299
Graff, A. H. 141
Graham, B. 317
Grathwohl, K. W. 155
Graubard, B. I. 35, 138
Gray, G. C. 152
Gray, R. 285
Green, S. 203, 369
Greene, A. 17
Greene, M. H. 35
Greens, S. 395
Grewal, P. 281
Gribok, A. V. 166
Grijalva, M. 335
Groebner, J. L. 43
Grogli, M. 16, 174, 225, 350, 374,
381, 386
Grugle, N. L. 99, 100, 101, 318
Gryder, D. 126
Gu, C. 329
Gu, S. H. 154
Gudmundsdotter, L. 73
Guerry, P. 145
Guindo, A. 402
Gumbs, C. 200
Guo, Q. 87, 312
Gurjala, A. N. 300
Gurunathan, S. 167
Gutierrez, L. 335
Gutierrez, L. A. 418
Gutierrez-Builes, L. A. 325
Gutteridge, C. E. 71, 301
Guwatudde, D. 58, 286
Gyorgy, A. B. 404
Ha, S. J. 154
Haagsma, K. 231

- Haj Hamida, N. B.** 16
Hajiiev, H. 271, 272
Hajiyeva, A. 272
Hale, T. L. 67
Hammamieh, R. 22, 352, 355
Han, K. H. 264
Han, W. 147
Hansen, C. J. 158
Hantgan, R. R. 141
Happi, C. T. 74
Harada, M. 77
Harlow, W. 325
Harris, E. 314
Harris, K. 290
Harris, L. N. 2
Hartings, J. A. 75, 76, 126
Hartmann, D. 2
Hasan, A. U. 77
Hawks, C. 233
Hawksworth, J. S. 78
Hayashi, H. 219
Hayes, R. 421
Hayes, R. L. 220, 420
Haynes, B. F. 200, 206
Haynes, J. D. 54, 394
Heady, T. N. 115
Heath, L. 376
Hejdeman, B. 73, 235, 236
Hellman, M. 352
Henley, R. 276
Hepburn, M. J. 37, 106, 271, 272, 273
Heppner, D. G. 54, 151, 162, 339, 393, 402
Heppner, D. G., Jr. 97, 128, 181, 202
Heppner, G. D. 164
Hermsen, C. C. 181
Herrell, R. 302
Hightower, A. 231, 303
Hildebrandt, J. 325
Hindes, R. 264
Hinrichs, D. 314
Hirata, R. 328
Hirayama, K. 194
Hisamori, D. 190
Hite, C. M. 304
Hittner, J. B. 211
Hmel, P. 260, 305, 306
Hochberg, L. P. 42, 43
Hoelscher, M. 68, 317, 321, 371, 412
Hoge, C. W. 1, 66, 79, 80, 81, 139, 213, 215, 302
Hojoh, H. 219
Holcomb, J. B. 155
Holers, V. M. 107
Holladay, L. 393
Holland, C. A. 151
Hollingdale, M. R. 84, 162, 176
Holmes, E. C. 53
Hombach, J. 192
Hoover, D. L. 10
Horovitz, S. G. 82, 275, 365
Horthongkham, N. 148
Hoshino, H. 144
Houf, K. 140
Houng, H. S. 83
House, B. 162, 410
House, B. L. 84
Hu, X. 361
Hubbard, G. 205
Huddler, D. P. 115
Hudson, T. 74, 261, 386
Hudson, T. H. 115
Hummer, K. 233
Humphries, M. J. 146
Huppler Hullsieck, K. 110
Hural, J. 376
Hussem, K. 390
Iamsirithaworn, S. 47
Ibadova, G. A. 342
Iloeje, U. 264
Imerbsin, R. 379
Imnadze, P. 37, 106, 273
Inman, R. D. 67
Innis, B. L. 188
Intarapuk, A. 85
Inwoley, A. 180
Iriko, H. 397
Ishhida, K. 307
Ishida, H. 307, 374
Ishida, K. 295, 349, 350
Ishizuka, A. 393
Ismayilov, A. 271, 272
Jackson, E. K. 297
Jairungsri, A. 149
Jakubowski, E. M. 69
Janabi, M. 235, 236
Janmey, P. 168
Januszkiewicz, A. 11
Januszkiewicz, A. J. 404
Jaoko, W. 180
Jarman, R. 193
Jarman, R. G. 47, 53, 109, 121, 124, 149, 163, 191, 221, 247, 390, 399

- Jayne, J.** 245
Jayne, J. M. 308
Jeamwattanalert, P. 309
Jeffrey, N. R. 52
Jemison, M. C. 305, 306
Jenkins, L. W. 104, 297
Jenkins, T. 310, 391
Jeong, J. H. 154
Jessup, C. 268
Jett, M. 22, 352, 355
Jiang, S. P. 381
Jin, X. N. 262, 310, 391
Jobe, O. 86, 311
Johnson, C. C. 69
Johnson, J. 174, 261, 386
Johnson, J. D. 40, 115
Johnson, M. L. 17
Johnson, T. 185
Joiner, B. C. 350
Jones, E. 145
Jones, L. E. 25
Jongkaewwattana, A. 161, 366
Jongrakthaitae, S. 280
Juang, Y. T. 57
Julg, B. 206
Juompan, L. 97, 181, 393
Kaba, S. A. 87, 312
Kaewkungwal, J. 167, 313, 320, 367
Kaewsatien, P. 85, 370
Kagan, V. 297
Kagan, V. E. 173
Kahn-Greene, E. T. 100
Kalambaheti, T. 85
Kalani, R. 357
Kalayanarooj, S. 153, 193, 203, 239, 369, 395
Kamanza, J. B. 94
Kamasuta, C. 320
Kamau, E. 88, 191
Kamimori, G. H. 17, 60, 89, 90, 114, 319
Kaminski, R. W. 91, 92
Kaneko, O. 251
Kaneko, T. 398
Kanesa-Thasan, N. 188
Kangwanrangsar, N. 202
Kantakamalakul, W. 148
Kapoor, A. 93, 118
Kappe, S. H. 202
Kappes, J. C. 135, 246, 343, 417
Karasavvas, N. 134, 238
Karaveli, F. S. 2
Karita, E. 180
Kariuki, T. 267
Karlen, K. 359
Kasili, S. 94, 176
Kathcart, A. 269
Katos, A. M. 95
Katz, M. 357
Kazura, J. W. 51
Keenan, S. M. 71
Keiser, P. B. 96
Kelley, P. W. 39
Kelly, E. 88
Kelly, J. X. 314
Kerr, C. 113
Kester, K. 26, 233
Kester, K. E. 97, 164, 181, 339
Ketchum, L. 155
Keyser, B. 229
Khakimov, M. M. 196
Khamboonruang, C. 167, 313, 367
Khan, F. 315
Khasa, Y. 393
Khemawoot, P. 291, 316, 332, 379, 380, 385, 407
Khetawat, D. 24
Khin Saw Aye, Myint 172
Khlaimee, N. 55
Khodiev, A. V. 342
Khore, M. 290
Kibaya, R. 6
Kibet, C. 333
Kibuuka, H. 317, 412
Kibuuka, H. N. 98
Kifude, C. 131
Kijak, G. 68, 246
Kijak, G. H. 98, 105, 286, 321, 371, 412
Killgore, D. B. 99, 100, 101, 318, 319
Killgore, W. D. 99, 100, 101, 160, 318, 319
Kilpatrick, C. W. 348
Kim, A. 250
Kim, H. C. 63, 102, 154, 169
Kim, H. D. 102
Kim, J. 278, 313, 376, 412
Kim, J. H. 167, 201, 280, 320, 321, 367, 371, 404
Kim, Y. 11
King, C. R. 400
Kinkade, C. 303
Kinyanjui, D. 357
Kioko, E. 176
Kitchen, L. W. 103
Kittinunvorakoon, C. 324

- Kiwanuka, N.** 285
Klein, T. A. 63, 102, 154, 169
Kneteman, N. M. 202
Kochanek, P. M. 104, 297
Kochel, T. J. 30
Koehler, R. 412
Koehler, R. N. 98, 105, 286, 321, 371
Koff, W. C. 180
Kohrianudom, S. 270
Koka, H. S. 322
Kolevic, L. 30
Komisar, J. 54, 269
Kone, A. 128, 402
Kongkaew, W. 55
Kongpechsatit, O. 324
Korber, B. T. 108
Korde, L. 35
Koros, J. 396, 411
Kors, J. 360
Kortepeter, M. G. 181
Kosoy, M. Y. 8
Koterski, J. 352
Koup, R. A. 68
Kouriba, B. 128, 402
Kozar, M. P. 310, 331, 340, 346, 372, 391
Kreishman-Deitrick, M. 115
Kreishman-Detrick, M. 233
Kreter, B. 264
Krishnamurthy, G. 78
Kroidl, A. 317
Krzych, U. 86, 97, 181, 202, 311, 323, 339, 393
Ksiazek, T. 303
Kuca, K. 425
Kuchuloria, T. 37, 106, 273
Kulik, L. 107
Kulkarni, S. S. 108
Kum-Arb, U. 161, 162, 366
Kumar, N. 267
Kunasol, P. 167, 313, 367
Kuntawungin, W. 241
Kuschner, R. A. 83
Kutima, H. L. 94
Kuttasingkee, N. 370
Kyle, D. 150
Kyle, D. E. 405
Laeyendecker, O. 285
Laguna-Torres, V. A. 30
Lai, C. J. 4
Lai, C. L. 264
Lambrechts, L. 109
Lanar, D. 402
Lanar, D. E. 54, 87, 128, 162, 181, 312
Landrum, M. L. 110
Lane, A. 37, 272
Langat, L. 6
Lanteri, C. 291, 346, 372
Lanteri, C. A. 262, 353
Lantova, L. 204
Lapchak, P. H. 177
Lapedes, A. 108
Laquer, K. M. 230, 240
Larson, B. A. 111
Latham, M. 231
Laufer, D. S. 180
Laurens, M. B. 402
Lawrence, K. L. 103, 112
Lazo, J. S. 174, 386
Leach, A. 26, 151, 164
Leary, K. J. 113, 119, 351
Lebo, E. 357
Lee, D. K. 102
Lee, I. Y. 102
Lee, J. S. 42, 43
Lee, K. I. 393
Lee, M. 361
Lee, M. G. 114
Lee, P. J. 115
Lee, R. E. 155
Lee, S. 241
Lee, W. J. 38
Leelawiwat, W. 324
Lees, C. J. 141
Legler, P. 315
Lehr, M. A. 348
Lehrman, J. K. 180
Leimgruber, S. 174, 386
Leirana, M. M. 325
Leistner, C. E. 326
Leitner, W. W. 2, 20
Lemiale, L. 410
Leng, L. 7
Leo, P. 2
Lerdprom, R. 327
Lerdthusnee, K. 8, 55, 157, 326
Lesho, E. 25, 116, 328
Lessler, J. T. 47
Letvin, N. L. 200, 206
Leung, K. P. 52, 72, 117, 218, 219, 300
Levin, L. I. 132
Lewandowski, H. B. 231
Lewis, S. 274
Lewis, S. H. 268
Lewis, Y. 146

- Leyk, S.** 268
Li, D. 222, 423
Li, F. 376
Li, L. 93, 118
Li, M. 108
Li, Q. 27, 119, 120, 216, 346
Li, Q. G. 217, 291, 310, 329, 330, 340, 351, 391, 419, 422
Li, Q. Q. 353, 381
Li, T. 88
Li, Y. 35, 147
Liang, Z. 187
Liao, Z. 125, 178
Liaw, Y. F. 264
Libratty, D. H. 121, 193, 203, 395
Lichtenstein, S. 50, 292, 375
Liepinsh, D. 86, 323
Lievens, M. 26, 97, 164
Lifson, J. 224
Likityingwara, L. 247
Lim, C. S. 38
Lim, P. 129
Limbach, K. 226, 400
Limbaso, S. K. 322
Limsalakpetch, A. 161, 162, 366
Lin, A. 331
Lin, A. J. 291, 310, 340, 391
Lin, J. 241, 382, 385, 407
Lin, J. T. 332
Ling, G. 11
Ling, G. S. 404
Linthicum, K. J. 5, 157, 231, 333
Lipizzi, E. L. 101
Liu, M. C. 220
Liu, X. J. 340
Liu, Y. 345
Lively, M. O. 141
Liyala, P. 334
Llanos, J. K. 122
Loaiza, J. 335
Loaiza, J. R. 325
Lockridge, O. 36
Lombardi, K. 246
Lon, C. 241, 380, 382, 385, 407
Long, C. 181
Long, J. B. 104, 123
Lopez-Sanchez, M. 115
Lora, N. 417
Lorono-Pino, M. A. 124
Lott, L. 83
Loughlin, K. 336
Louisirirotchanakul, S. 148
Lourenco-de-Oliveira, R. 325
Lu, M. 337
Lu, M. X. C. 420
Lu, X. C. 34, 49, 125, 126, 175, 210, 220, 237, 387, 388, 389, 421
Lu, X. C. M. 266, 279, 356, 416
Luang, K. M. 341
Luangtrakool, K. 203, 395
Luangtrakool, P. 203, 395
Lucas, C. M. 299
Luckhart, S. 282, 396
Lugo-Roman, L. A. 127
Lui, J. 225
Lukaski, H. C. 384
Lumley, L. 50, 292
Lumley, L. A. 293, 338
Lumsden, J. 323, 339
Luna, J. M. 221
Luo, C. 189
Luong, T. 353
Luong, T. L. 310, 340
Lutomiah, J. 45, 322
Lyamuya, E. 224, 235, 236
Lyke, K. E. 128, 402
Lynch, J. 191, 243, 399
Lynch, J. A. 83, 88
Lyon, J. A. 151
Lyons, A. 248
Maboko, L. 68, 317, 321, 371, 412
Macareo, L. R. 341
Macauley, P. 129
Macdonald, V. W. 305, 306
MacIntosh, V. H. 152
Madhavarao, C. N. 232
Madiyarov, R. S. 342
Maganga, L. 371
Magaret, C. C. 376
Magill, A. 225, 242, 291, 354, 358, 381, 386
Magill, A. J. 174, 331, 374
Mahannop, P. 85
Mahanonda, R. 130, 161, 366
Mahat, I. 360, 411
Maida, D. M. 338
Maier, A. G. 202
Maiolatesi, S. 400
Major, S. 76
Makio, A. 322
Malainual, N. 55
Malasit, P. 149
Malia, J. A. 13
Malkin, E. 151, 181
Mammen, M. P. 203, 395
Mamuchishvili, N. 273

- Mani, S.** 22, 62
Manigart, O. 180
Manning, A. 75
Manyak, M. J. 424
Manzo, M. 276
Maranich, A. M. 243
Marek, E. 21
Markaryan, A. 107
Marone, R. 12
Marovich, M. 73, 146, 224, 233, 235, 236, 278, 317, 359, 414
Marovich, M. A. 28, 56, 58, 187, 286
Marshall, V. S. 34
Martensson, U. E. 144
Martin, S. K. 131, 151
Martinez, L. J. 243
Martinson, J. J. 7, 200
Martyak, T. 276
Mascola, J. R. 265
Mason, C. 93, 342
Mason, C. J. 118, 140, 161, 244, 366
Massa, J. 132
Masson, P. 65
Massoulie, J. 133
Matsuda, S. 190
Matsumoto-Mashimo, C. 218
Matyas, G. R. 14, 134, 135, 158, 238, 343, 414
May, L. 136
Mayda, M. 406
Mayda, M. E. 344
Mazzeo, A. T. 75
Mbwana, J. 235, 236
McAvin, J. C. 42, 43, 59
McCabe, J. T. 345
McCalmont, W. 291
McCalmont, W. F. 115, 262, 301, 346, 353
McCarron, R. 185, 401
McClain, S. 183, 191
McClain, S. R. 184
McCoy, K. 111
McCutchan, F. 56, 68, 412
McCutchan, F. E. 6, 58, 98, 105, 108, 321, 371, 376
McDermott, A. 47
McElrath, M. J. 376
McFaul, S. 347
McFaul, S. J. 137
McGlynn, K. A. 35, 138
McGurk, D. 1
McGwin, G. 185
McKeon, S. N. 348
McKibben, E. S. 139
McKinney, D. 151
McMichael, A. J. 200, 206
McNeil, J. G. 167
Mcnicholl, J. 324
McPhee, D. A. 180
McWilliams, I. 312
Mease, R. M. 230, 240, 315
Megraud, F. 140
Melendez, V. 27, 119, 262, 291, 310, 314, 331, 340, 351, 353, 372, 379, 391, 422
Men, R. 4
Mendez, J. 225, 298, 349, 350, 381
Mendez, L. 349, 350
Mendoza-Silveiras, J. 400
Meshnick, S. R. 332
Messer, S. C. 66, 213
Mester, C. 347
Mester, C. W. 137
Mettens, P. 410
Metzgar, D. 83
Metzler, I. S. 68
Meyers, W. M. 207, 208
Mhala, F. 236
Mhalu, F. 224, 235
Michael, N. 73, 235, 236, 278, 294, 317
Michael, N. L. 6, 13, 56, 58, 98, 105, 135, 167, 200, 206, 246, 265, 280, 285, 286, 320, 321, 343, 371, 376, 412, 417
Miilo, G. 180
Mikolajczak, S. A. 202
Milhous, W. 74, 150
Millard, C. B. 133, 182
Millard, M. 317
Miller, B. 45
Miller, D. 413
Miller, L. 354
Miller, L. B. 96
Miller, L. H. 394
Miller, M. 268
Miller, R. S. 48, 119, 162, 341, 351, 354
Miller, S. A. 352
Miller, W. G. 140
Milligan, P. 26
Millikan, A. M. 209
Milman, J. B. 151
Milner, E. 262
Milner, E. E. 214, 353
Mintun, M. A. 18
Mioduszewski, R. J. 70
Mittelholzer, C. 87, 312

- Miura, K.** 398
Miyamoto, K. 316
Mizel, S. B. 141
Mo, T. 214
Moch, J. K. 394
Moffett, J. R. 232
Moffett, M. 292
Moffett, M. C. 338
Mohamed, A. J. 221
Mohr, C. D. 199
Mok, S. C. 2
Molnar, S. 417
Montano, S. M. 12, 30
Montefiori, D. 246, 285, 417
Montefiori, D. C. 108
Montio, G. 346
Moon, J. 354
Moon, J. K. 353
Moorad-Doctor, D. 249, 250, 296
Moermann, A. M. 51
Moqueet, N. 98, 105, 321, 412
Moran, E. E. 223
Moran, T. S. 95
Moratz, C. 107, 345
Moratz, C. M. 57
Mori, N. 218
Moris, P. 97, 339
Morizot, G. 16
Morris, L. 108, 144
Morrison, B. 393
Morthole, V. 78
Moshiro, C. 235
Mosier, D. E. 144
Moss, B. 56, 73, 235, 236, 278
Moss, W. J. 392
Motoki, M. T. 142
Moulton, J. K. 42, 43
Moulton, V. R. 177
Mueanpai, F. 324
Muema, A. M. 94
Muhie, S. 287, 352, 355
Mullins, J. I. 376
Mun, S. K. 18
Mundal, K. 288
Mundal, K. D. 59, 299
Munger, K. L. 132
Munuya, P. 357
Murakami, Y. 356
Muratova, O. 397
Murdock, B. A. 202
Murhandarwati, E. E. 143
Murphy, J. 269
Murphy, J. R. 336
Musilek, K. 425
Mustata, G. 174
Mustoe, T. A. 300
Muszynski, I. S. 212
Mutabingwa, T. K. 393
Muthoka, P. 357
Muthoni, M. 322
Mutisya, J. 322
Mwangi, J. 334
Mwanyika, L. 235, 236
Myers, M. 345
Myint, H. Y. 358
Myint, K. S. 163, 390
Na-Bangchang, K. 194
Nagarkatti, R. 283
Nagasaki, K. 2
Naik, R. S. 189
Naik, S. 3
Nakamura, T. 219
Nakhasi, H. L. 283
Namas, R. 198
Nambiar, M. P. 32, 44, 95
Namboodiri, A. M. A. 232
Nambu, T. 218
Namwat, C. 167
Narum, D. L. 394
Nath, J. 137
Ndounga, M. 46
Nedellec, R. 144
Negron, E. 30
Neill, R. 22
Neill, R. J. 179
Nemelka, K. W. 145
Neville, J. S. 152
Newell, J. 276
Ng'nonga, D. 333
Ngauy, V. 146
Ngere, F. 333
Ngere, F. G. 94
Nguay, V. 278
Nguku, P. 303
Ngumbi, P. 176
Ngwenyama, N. 68
Nhan, D. H. 143
Niangaly, A. 402
Nichols, D. A. 71
Nidhinandana, S. 201
Niebuhr, D. W. 147, 209, 277, 415,
 427, 428
Nielsen, R. 181
Nielsen, R. A. 97
Nikolich, M. 10
Nilsson, C. 73, 224, 235, 236, 359

- Nimmannitya, S.** 153, 369
Nisalak, A. 47, 53, 149, 153, 193, 239, 247, 369
Nisaluk, A. 221
Nishikawa, H. 218
Nishino, K. 316
Nitayapan, S. 313
Nitayaphan, S. 167, 270, 280, 320, 367, 426
Nitta, A. 232
Nityasuddhu, D. 85
Niyasom, C. 148
Njenga, K. 303, 357
Nkengasong, J. N. 23
Noedl, H. 373
Noisakran, S. 149
Nolan, E. 116
Nold, M. J. 394
Nosten, F. 341
Novikov, A. 107
Nuckols, J. 268
Nuriyev, T. 271, 272
Nyakoe, N. 360, 396, 411
Nzioka, C. 357
Nzodom, C. 417
Nzunza, R. 334
O'Brien, S. J. 200
O'Connell, M. 276
O'Connell, R. 368
O'Connell, R. J. 13, 156
O'Guinn, M. L. 43
O'Neil, M. 74, 174, 261, 269, 314, 346, 386
O'Neil, M. T. 301, 310, 331
O'Neill, M. T. 202, 234
O'Reilly, E. J. 132
O'Sullivan, A. 376
Oaks, E. V. 61, 91, 92
Obaldia, N., 3rd 150
Oballah, P. 285
Oberhelman, R. A. 30
Ochieng, W. 357
Ochola, R. 360, 411
Ochsenbauer-Jambor, C. 135, 246, 343, 417
Ockenhouse, C. 226, 233, 400, 410
Ockenhouse, C. F. 15, 97, 151, 164, 181, 240, 269, 299, 361, 424
Ockenhouse, E. B. 361
Odemba, N. 94
Oderinde, B. 93
Oderinde, B. S. 118
Odindo, A. 207
Odour, M. 396
Oduola, A. M. 74
Ofori-Anyinam, O. 26, 97, 164, 181, 339
Ogata, S. 276
Ogawa, K. 219
Oguinn, M. L. 42
Ogutu, B. 396
Ogutu, B. R. 151, 164
Ohmae, H. 77
Ohrt, C. 113, 242, 291, 310, 346, 354, 358, 374, 378, 379
Okoth, W. 151
Olaya, W. V. 299
Oldfield, E. H. 2
Olmeda, R. 262, 310, 340, 391
Olson, J. 250
Ombok, M. 303
On, S. L. 140
Ong'echa, J. M. 7, 211
Onyango, D. 207
Ooi, G. 328
Ope, M. 357
Opsenica, I. 372
Orago, A. S. 211
Orillo, B. 276
Osuna, F. 334
Otiende, M. Y. 362
Otieno, L. 151, 164, 245, 308, 384, 396
Otieno, M. F. 211
Otieno, W. 207
Otsuki, H. 251, 397
Ottens, A. 220
Otterstetter, R. 90
Otto, J. L. 154
Oukka, M. 57
Ouma, B. 285
Ouma, B. J. 58
Ouma, C. 7, 211
Ouppapong, T. 247
Overbaugh, J. 144
Owens, A. B. 152
Ozdemirli, M. 2
Pai, V. 276
Paik, S. 328
Pak, E. 231
Pak, T. 292
Pal-Bhowmick, I. 394
Pallangyo, K. 235, 236
Palmer, D. R. 88, 187, 191, 399
Pandav, R. 221
Pandey, P. 93, 118, 172

- Pando, M. A.** 12
Pankhong, P. 153
Paranjape, R. S. 108
Pare, M. A. 70
Parekh, F. 400
Parikh, K. 36
Paris, R. 167, 180, 278
Paris, R. M. 280, 320
Park, J. S. 38
Parker, Z. 344, 406
Parks, D. E. 276
Parks, S. 11, 297
Parks, S. A. 404
Parsartvit, A. 55
Pataabiraman, N. 232
Patel, D. 336
Pattarini, D. 145
Patterson, N. B. 400
Paul, R. H. 201
Pavlin, J. A. 136, 152, 197, 390
Payne, K. S. 154
Payne, S. M. 61
Peachman, K. 363
Peachman, K. K. 14, 88, 183, 184, 414
Peacock, E. 346
Pearce, L. B. 185
Pedersen, R. 388
Pedersen, R. C. 389
Peel, S. 110
Peel, S. A. 13
Pelak, K. 200
Pereira, J. B. 348
Perkins, D. J. 7, 211
Perkins, J. G. 155, 305, 306
Perng, G. C. 149
Perret, K. 412
Perry, J. 188
Perry, K. 233
Peruski, L. F. 8
Petersen, K. 156
Petrovas, C. 68
Phairat, B. 130
Pham, J. 393
Phasomkusolsil, S. 157, 364
Philbin, N. 185
Philip, T. L. 268
Phillips, C. J. 158
Phuang-ngem, Y. 280
Phulsuksombati, D. 157
Picchioni, D. 82, 159, 160, 275, 365
Pichyangkul, S. 130, 161, 162, 366, 410
Pilakasiri, C. 163
Pimentel, G. 106, 273
Pinder, M. 26
Pinelis, E. 97
Pinyorattanachote, A. 327
Piraliyev, S. 271, 272
Pitetti, K. H. 60
Pitisuttithum, P. 167, 180, 313, 367
Pitsutthum, P. 320
Pletneva, L. M. 24
Plowe, C. V. 128, 402
Poche, R. 413
Poeu, S. 241, 385, 407
Poff-Reichow, S. A. 10
Poignard, P. 180
Polhemus, M. 151, 233, 243, 269, 308, 360, 396, 410, 411
Polhemus, M. E. 164, 240, 245, 384
Polito, A. 368
Polonis, V. R. 14, 24, 108, 135, 144, 165, 246, 285, 343, 363, 414, 417
Polyakova, L. A. 413
Poore, D. D. 372
Portaels, F. 207, 208
Porter, K. R. 187
Potts, J. A. 121, 369
Povoa, M. A. M. 325
Povoa, M. M. 418
Powers, T. E. 147
Pozniak, A. 180
Prachumsri, J. 269
Praditpornkul, A. 370
Prasanthong, R. 47
Premsri, N. 167
Price, D. A. 68
Priddy, F. H. 180
Prigge, S. T. 115
Prince, G. A. 24
Pritsch, M. 371
Pruett, K. 113
Pung, P. 180
Putnak, J. R. 188, 276
Putnak, R. 191, 193, 399
Putnam, J. L. 42, 43
Puyana, J. C. 198
Pybus, B. 346
Pybus, B. S. 372
Qasimov, M. 271, 272
Qin, J. 294
Qiu, C. 287
Quigg, R. J. 107
Quinn, T. 285

- Quraishi, S. M.** 138
Rabin, L. 205
Rachaphaew, N. 327
Rae, D. S. 212
Raffeld, M. 2
Ragab, H. 15
Rajaraman, S. 166
Rajasekariah, G. H. 131
Raman, S. 87
Ramanathan, M. P. 153
Ramboer, I. 164
Rangel, Y. 418
Rao, M. 14, 183, 184, 363, 414
Rasameesoraj, M. 373, 379
Ratanatham, S. 157
Ratcliffe, R. H. 296
Ratto-Kim, S. 201, 278, 280, 320, 321
Rau, S. 372
Raugi, D. N. 376
Rawiwan, I. 291
Ray, P. 222, 229, 295, 307, 374, 423
Ray, R. 222, 229, 295, 307, 423
Rayamajhi, B. B. 390
Reed, R. 174, 386
Reese, N. 262, 310, 391
Regier, D. A. 212
Regis, D. 400
Reichardt, R. M. 99
Reidler, R. 181
Reifman, J. 166
Reinbold, D. D. 40
Reiter, K. 394
Remich, S. A. 151, 164
Repine, T. B. 155
Rerks-Ngam, S. 280
Rerks-Ngarm, S. 167, 320, 367
Rerkyen, P. 130
Reuter, J. W. 107
Reyes, S. 400
Reyes-Huynh, R. 276
Reynaga, E. 12
Rezk, P. 32
Rice, J. 185
Richardson, J. 45, 231, 269
Richardson, J. H. 5, 8, 59, 109
Richie, T. L. 31, 84, 143, 226, 269, 299, 400
Rico, P. J. 127
Rida, W. 180
Riel, M. A. 113
Riggs, L. E. 283
Riley, M. 361
Ringwald, P. 373
Riscoe, M. 314
Ritzel, D. 11
Robb, M. 56, 73, 235, 236, 278, 317
Robb, M. L. 6, 58, 98, 105, 167, 285, 286, 321, 371, 412
Robertson, B. 292
Robertson, B. D. 375
Robertson, M. N. 376
Robinson, C. A. 333
Robison, C. 293
Robison, C. L. 338
Roederer, M. 265, 294
Rohlinger, E. 276
Rolland, M. 376
Romoser, W. S. 326
Roncal, N. 214
Roncal, N. E. 115, 262, 353
Rosen, S. 111
Rossetti, F. 292
Rotger, M. 200
Rothman, A. L. 203, 369, 395
Rothstein, Y. 291
Rothwell, S. W. 168
Rovira, J. 335
Rowland, T. 344
Rowton, E. D. 413
Roy, M. J. 113
Ruang-areerate, T. 370
Rubertone, M. V. 35, 138
Rueda, L. M. 63, 64, 102, 169
Ruengweerayut, R. 194
Ruiz, F. 325
Rungpung, A. 270
Rupp, T. L. 170
Russell, K. L. 152
Rutvisuttinunt, W. 377, 385, 407
Ryan, E. J. 90
Ryan, E. T. 67
Ryan, J. R. 42
Ryan, M. A. 158
Sa-Ard-Iam, N. 130
Saad, M. D. 196
Saathoff, E. 321, 371
Sabnekar, P. 32
Sacci, J. B. 226
Sacci, J. B., Jr. 84, 202
Sadowski, B. W. 301
Safi, N. 195
Saingam, P. 407
Sakamoto, H. 398
Saksit, W. 370

- Salata, J.** 29
Salazar, E. 30
Sallum, M. A. 142, 418
Sallum, M. A. M. 171, 325
Salum, M. A. 348
Salvi, A. D. 199
Sames, W. J. 63, 102
Sampath, A. 242, 374
Sanchez, J. L. 12, 13, 30, 196
Sandberg, J. K. 58, 286
Sanders, K. E. 212
Sanders-Buell, E. 376
Sandige, H. L. 156
Sandstrom, E. 73, 224, 235, 236, 359
Sang, R. 45, 231, 322
Sangiamkittikul, A. 324
Sangkachantaranon, K. 53
Sangsawad, W. 186
Sarim, S. 241, 385
Sarkar, J. 198
Sarmiento, D. 116
Sateren, W. B. 6, 12
Sathunuru, R. 391
Sattabongkot, J. 38, 77, 190, 251, 397, 398, 410
Sauerwein, R. W. 181
Saunders, D. 241, 269, 291, 331, 373, 378, 379, 380, 381, 382, 385, 407
Saunders, D. L. 332
Saunderson, P. R. 9
Saviolakis, G. A. 119, 351
Savranskaya, T. 20, 240, 281, 336
Sawe, F. 111
Sawyer, E. 168
Saxena, A. 36, 65, 189
Scarlatti, G. 165
Schabel, D. 303
Schaecher, K. 26, 332, 385, 407, 410
Schaecher, K. E. 130, 377
Schmiel, D. H. 223
Schnabel, D. 231, 322, 357, 360, 383, 411
Schnabel, D. C. 5, 207
Schuettz, A. 68, 280
Schuitemaker, H. 165
Schultz, M. 292
Schultz, M. K. 338
Schunk, M. 317
Schurig, G. G. 10
Schwartz, J. 292
Schwartz, J. E. 338
Schwarz, M. 284
Schwenk, R. 86, 97
Schwenk, R. J. 311, 323, 339
Sciuto, A. M. 32, 44, 95
Scott, C. T. 147
Scott, M. 335
Scott, P. T. 6, 13, 195
Scott, R. M. 172
Scott, T. W. 109
Scrimgeour, A. 308, 384, 396
Scrimgeour, A. G. 245
Se, Y. 241, 332, 380, 382, 385, 407
Sebesta, J. A. 155
Sedegah, M. 400
Sedigh-Sarvestani, M. 50
Sedlock, D. A. 114
Segubre-Mercado, E. 121
Self, S. G. 376
Senda, J. 276
Sengupta, R. 173
Seriwatana, J. 243
Serwadda, D. 285
Settle, T. 168
Settle, T. L. 127
Sewankambo, N. 285
Seyidova, E. 272
Shaffer, D. 111, 317
Shaffer, D. N. 6
Sharif, S. K. 303
Sharlow, E. 386
Sharlow, E. R. 174
Sharrow, K. 175
Shear, D. 279, 387, 388
Shear, D. A. 175, 210, 389
Sheppard, F. 78
Sherwood, V. 169, 176
Shi, M. 181
Shi, T. 177
Shi, X. 178, 179
Shianna, K. V. 200, 206
Shiham, I. 221
Shikuma, C. M. 201
Shimizu, N. 144
Shiramizu, B. T. 201
Shiver, J. 376
Shlim, D. R. 172
Shorr, A. F. 155
Shrestha, B. 390
Shrestha, B. K. 390
Shrestha, B. R. 244
Shrestha, S. K. 244, 390
Shun, T. 174
Shupp, J. W. 22

- Si, Y.** 120, 126
Si, Y. Z. 330, 337
Siangla, J. 151
Siangphoe, U. 201
Sigei, C. 111
Silman, I. 65
Silva-do-Nascimento, T. F. 325
Silverman, G. J. 107
Simek, M. D. 180
Simon, J. L. 111
Simovic, M. 57
Simpson, D. 168
Sinclair, R. R. 199
Sing, G. 34
Singer, D. E. 13
Singh, B. R. 222, 423
Sirichaisinthop, J. 327
Sirisinha, S. 161, 366
Sirisopana, N. 270, 370
Sissoko, M. 402
Sithinamsuwan, P. 201
Sithy, N. 382
Slentz-Kesler, K. 287
Small, J. 5, 231, 268
Smallridge, R. C. 89
Smalls, C. 116
Smilkstein, M. 314
Smith, B. 241, 380, 385, 407
Smith, B. L. 291
Smith, K. 400
Smith, P. L. 16
Smith, T. C. 158
Smith, V. L. 333
Smittipat, N. 186
Socheat, D. 241, 332, 380, 382, 385, 407
Soisson, L. 54, 181, 400, 402
Soisson, L. A. 151
Solaja, B. 372
Solorzano, N. 288
Somsri, K. 370
Song, G. 397
Song, J. W. 154
Songprakhon, P. 149
Sorber, K. 405
Sorensen, B. 393
Soto-Castellares, G. 30
Sousa, J. 346, 372
Sousa, J. C. 262, 310, 340, 353, 391
Sowunmi, A. 74
Spaccapelo, R. 312
Spalding, M. D. 392
Spanggord, R. 129
Speake, C. 393
Spindler, V. 418
Spinella, P. C. 155
Spring, M. 269, 400
Spring, M. D. 51, 181
Sreephiang, A. 148
Srichairatanakul, U. 410
Srijan, A. 140, 244
Srikiatkachorn, A. 369
Srinivasan, P. 394
Sriplienchan, S. 278
Sriranganathan, N. 10, 141
Srisajjarak, W. 327
Srisurapanon, S. 270
Sritabal, J. 38
Sriwichai, S. 241, 332, 385, 407
Stablein, D. 167
Stahl, A. M. 182
Stantchev, T. S. 24
Steers, N. 323
Steers, N. J. 183, 184
Steinbeiss, V. 400
Stephens, H. A. 203, 395
Stern, S. 185
Stetler-Stevenson, W. G. 2
Stewart, A. 164, 282
Stewart, V. A. 97, 151, 162, 181, 396
Stipec, M. R. 212
Stone, M. F. 338
Stout, R. 235
Stoyanovsky, D. A. 173
Strathdee, S. A. 195
Strickman, D. 344, 406
Stromberg, K. 2
Strong, A. J. 75
Sturdivant, R. 127
Subramanian, H. 187
Suclupe, E. P. 299
Sugimori, C. 218
Suguri, S. 77
Suksatu, A. 186
Sukwit, S. 270, 320
Sullivan, J. S. 54
Sumba, P. O. 51
Sun, G. 86
Sun, P. 88, 187, 191
Sun, W. 187, 188, 189
Sundrakes, S. 407
Suntharasamai, P. 367
Supradish, P. 369
Supyapoung, S. 163
Sutthent, R. 148, 270

- Swanson, K. I.** 42, 43
Swauger, P. 297
Swauger, P. V. 404
Sweeney, S. 123
Switzer, R. 297
Szabo, K. A. 3, 168
Sztein, M. B. 128
Tabprasit, S. 270
Tac-an, I. A. 274
Tachibana, M. 251, 397, 398
Tack, D. M. 248
Tadaki, D. K. 78
Takala, S. 402
Takeo, S. 46, 190, 397, 398
Takhampunya, R. 88, 191, 399
Tallo, V. 121
Tally, J. 381
Tally, J. D. 350
Tamaki, T. 219
Tamminga, C. 269, 400
Tanabe, K. 46
Tang, H. 108
Tangteung, A. 353
Tangthongchaiwiriya, K. 373
Tanskul, P. 157
Tanwandee, T. 264
Tarragona-Fiol, T. 180
Tartaglia, J. 167, 280
Tedder, T. F. 33
Teja-isavadharm, P. 291, 373, 379, 380, 385
Tejaisavadharm, P. 407
Tekwani, B. 242
Telenti, A. 200
Teranishi, K. 401
Thaisomboonsuk, B. 109
Thammapalerd, N. 85
Thelian, D. 58, 246
Thera, M. A. 128, 402
Thitithanyanont, A. 161, 186, 366
Thomas, J. L. 199
Thomas, M. J. 141
Thomas, S. 191, 247, 369, 399, 403
Thomas, S. J. 188, 192, 193
Thompson, P. A. 71
Thongchareon, P. 313
Thongcharoen, P. 167, 278
Thongkukiatkul, A. 169, 251
Thonnard, J. 402
Thorne, M. 276
Tierney, E. 181
Timmermans, A. 382, 385
Tippawangkosol, P. 194
Tisch, D. J. 51
Tobgay, T. 53
Todd, C. S. 195, 196
Tokars, J. I. 197
Tomayao, A. D. 274
Tomich, N. E. 39
Tomori, T. 78
Tong, L. 11, 404
Tong, L. C. 293
Tong, Y. 2
Tongtawe, P. 162
Tongtoyai, J. 324
Torii, M. 251, 397, 398
Torres, A. 198
Tortella, F. 237, 266, 279, 337, 387, 388, 421
Tortella, F. C. 34, 49, 75, 125, 126, 175, 210, 220, 356, 389, 416, 420
Tosh, D. 269, 354
Tovanabutra, S. 68, 371, 376
Townes, D. A. 424
Traore, D. 402
Traore, K. 402
Trapaidze, N. 37
Trichavaroj, R. 280, 320
Triki, H. 118
Triservice AIDS Clinical Consortium
 294
Tropel, D. 87
Tsanava, S. 37
Tserتسادزه, E. 37
Tserتسادزه, N. 37
Tserتسادزه, T. 106
Tsokos, G. C. 33, 57, 107, 177
Tsuboi, T. 46, 190, 202, 226, 251, 397, 398
Tucker, C. J. 5, 231
Tucker, J. S. 199
Tucker, K. 151, 181
Tucker, M. S. 405
Turbyfill, K. R. 92
Turell, M. 322
Turell, M. J. 344, 406
Tyner, S. 241, 380, 385, 407
Tyner, S. D. 332, 377
Ubalee, R. 194
Ubol, S. 186
Udomsangpetch, R. 38
Urban, T. J. 200
Urquhart, A. 226
Utaisincharoen, P. 161, 366
Vadivia, R. S. 299

- Vahey, M. T.** 116
Valcour, V. G. 201
van de Pol, C. 113
van Griensven, F. 324
Van Panhuis, W. 408, 409
VanBuskirk, K. M. 202
VanCott, T. 56
Vanloubbeeck, Y. 410
Varma, S. 398
Vaughn, D. W. 188, 193, 203, 395
Veazey, J. M., Jr. 113
Vejbaesya, S. 203, 395
Velasco, J. M. S. 274
Vendelbo, L. 76
Venkatesan, M. M. 67
Vernon, A. 296
Victoria, J. 93, 118
Vignali, M. 393
Vinetz, J. 190
Viputtikul, K. 270
Vodovotz, Y. 198
Volf, P. 204
Voss, G. 162
Votypka, J. 204
Vulule, J. M. 211
Wabwire-Mangen, F. 58, 98, 105,
285, 286, 412
Wade, C. E. 155
Wadegu, M. 334
Waghray, A. 210
Wahren, B. 73, 235, 236, 359
Waiboci-Muhia, L. 357
Waitumbi, J. 131, 243, 360, 361, 396
Waitumbi, J. N. 151, 164, 207, 411
Walker, B. D. 206
Walker, C. B. 218
Walker, L. 242, 358
Walker, L. M. 180
Walker, R. I. 67
Walker, T. W. 333
Wallace, S. 205
Wallace, S. M. 145
Walley, N. M. 206
Wallqvist, A. 361
Walsh, A. M. 98, 105, 321, 412
Walsh, D. 243
Walsh, D. S. 9, 207, 208
Walsh, G. P. 9
Wambua, S. 360, 411
Wang, C. 118
Wang, G. 140, 276
Wang, K. 421
Wang, K. K. 220, 420
Wang, L. 143
Wang, W. 7
Wang, X. H. 391
Wang, Z. 98, 328
Wang, Z. N. 116, 405
Wanga, J. 226
Wangchuk, S. 53
Wangui, J. 334
Ware, L. 269, 410
Ware, L. A. 15, 162, 181
Washington, M. A. 15
Wasserberg, G. 413
Wasserman, S. S. 188
Wasunna, M. 6, 111
Watanabe, T. 76
Watcharapichat, P. 157
Waterman, P. 155
Waters, N. C. 40, 71, 115, 334,
392
Wawer, M. 285
Weaver, K. L. 414
Weber, J. P. 138
Weber, N. 415
Weber, N. S. 209, 277
Wei, G. 356, 416, 421
Wei, H. 125
Wei, H. H. 210
Weik, M. 65
Weil, R. J. 2
Weina, P. 120, 298, 381
Weina, P. J. 119, 216, 217, 329, 330,
349, 350, 351, 374, 419, 422
Weiner, D. B. 153
Weintrob, A. C. 110, 200, 206
Wenjuan, G. 294
Were, T. 7, 211
Wesberry, M. 417
Wesensten, N. J. 166, 170
Wesley, I. V. 140
Wessner, K. A. 123
West, J. C. 212
Westerman, R. 291
White, C. 168
White, N. 358
White, N. J. 38
Whittington, J. 281
Wiboon-ut, S. 161, 366
Wieczorek, L. 14, 24, 135, 246,
343, 363, 414, 417
Wilder, D. 29, 252, 253, 254, 255,
256, 257, 258, 259, 260
Wilk, J. E. 212
Wilkerson, R. 325, 335

- Wilkerson, R. C.** 63, 64, 142, 171, 289, 348, 418
Williams, A. J. 49, 126, 175, 220
Williams, F. 400
Williams, J. 97, 202, 269, 336, 393
Williams, J. L. 181
Williams, M. A. 287
Williamson, C. 371
Wilson, A. L. G. 213
Winter, R. 314
Wipf, P. 174, 214, 353
Wirth, D. F. 74
Wirtz, R. A. 42, 97
Withers, M. R. 151
Wittes, J. 151
Wojcik, R. 274
Wong, K. 376
Wong, K. H. 18
Wood, C. L. 15
Wood, J. 141
Wood, J. F. 15
Woodard, C. L. 71
Wortmann, G. 233
Wrathall, J. R. 18
Wright, K. M. 215
Wrin, T. 180
Wu, S. S. 264
Wu, Y. 397
Wyckoff, E. E. 61
Wynn, W. W. 333
Xiao, Y. 295
Xie, L. 120, 330, 353, 381
Xie, L. H. 216, 217, 329, 419, 422
Xie, L. S. 310, 340, 391
Xing, J. 197
Yadava, A. 15, 46, 269, 410
Yalwala, S. 322
Yamanaka, T. 218, 219
Yamane, K. 218, 219
Yamo, E. O. 211
Yang, D. 355
Yang, D. C. 22
Yang, L. X. 420
Yang, X. 125
Yang, X. F. 337, 356, 416
Yao, C. 49, 125, 210, 220, 420
Yao, C. P. 421
Yee, E. 140
Yingyern, K. 377
Yingyuen, K. 407
Yolken, R. 277, 415
Yong, H. S. 55
Yongvanitchit, K. 161, 162, 366, 410
Yoolek, A. 55
Yoon, I. K. 53, 121, 233
Yoon, S. K. 264
Yousuf, A. A. 221
Yoshida, M. 219
Yoshimichi, S. 316
Young, A. J. 384
Yourick, D. 50, 292, 375
Yourick, D. L. 293
Yuanzhang, L. 428
Yuentrakul, P. 341
Zaatour, A. 16
Zaccai, G. 65
Zacharia, A. 57
Zaidi, S. Z. 93
Zamora, R. 198
Zelazowska, E. 22
Zeng, Q. 353
Zeyrek, F. Y. 46
Zhang, C. 191
Zhang, C. L. 399
Zhang, H. 264
Zhang, J. 120, 216, 217, 310, 329, 330, 340, 353, 381, 391, 419, 422
Zhang, L. 391
Zhang, M. 108
Zhang, P. 222, 229, 374, 423
Zhao, H. 376
Zheng, A. 50
Zheng, Q. 381
Zhuang, Z. 2
Zollinger, W. D. 96, 223
Zollner, G. 413
Zollner, G. E. 288

TITLE INDEX

TITLE INDEX

- Academic Medicine** 116
Advances in Dental Research 117
AIDS 135
AIDS Research and Human Retroviruses 6, 30, 317
American Journal of Cardiology 60
American Journal of Clinical Pathology 23
American Journal of Epidemiology 302
American Journal of Medicine 25
American Journal of Physiology-Gastrointestinal and Liver Physiology 177
American Journal of Preventive Medicine 152
American Journal of Public Health 39
American Journal of Tropical Medicine and Hygiene 8, 9, 38, 113, 119, 131, 150, 193, 207, 225, 226, 227, 228, 230, 231, 234, 239, 240, 241, 242, 243, 244, 248, 251, 262, 263, 267, 268, 269, 271, 272, 273, 274, 281, 282, 284, 289, 290, 291, 299, 301, 303, 310, 311, 312, 314, 315, 322, 323, 325, 326, 329, 330, 333, 335, 339, 340, 341, 342, 344, 348, 351, 353, 354, 358, 361, 362, 364, 373, 374, 377, 378, 379, 381, 382, 383, 385, 390, 391, 392, 395, 396, 397, 398, 399, 400, 402, 405, 406, 407, 408, 409, 410, 413, 418, 419, 422
Annals of Nutrition and Metabolism 245, 308
Antimicrobial Agents and Chemotherapy 40, 74
Aviation Space and Environmental Medicine 90, 99
Biochimica et Biophysica Acta 134
Bioorganic & Medicinal Chemistry 21
Bioorganic & Medicinal Chemistry Letters 71
Biophysical Journal 65
Birth Defects Research. Part B, Developmental and Reproductive Toxicology 120
Blood 68
BMC Evolutionary Biology 109
BMC Microbiology 140, 218
BMC Pharmacology 222
BMC Public Health 111, 136
Cancer Research 138
Cancer Science 2
Cell Host & Microbe 206
Clinical and Vaccine Immunology : CVI 92, 124, 141, 223
Clinical Immunology 57
Clinical Infectious Diseases 156
Clinical Microbiology Newsletter 208
Comparative Medicine 145
CROI 2009: 16th Conference on Retroviruses and Opportunistic Infections: Pocket Program 294
Current Opinion in HIV and AIDS 165
Current Opinion in Immunology 31
Current Opinion in Pharmacology 133
DNA and Cell Biology 153
Drug Development Research 182
Drug Metabolism Reviews 316
Emerging Infectious Diseases 53, 106, 161, 197
Epilepsia 292
Expedition and Wilderness Medicine 424

Experimental & Applied Acarology	55
Experimental Biology and Medicine	22
Expert Review of Vaccines	91
FASEB Journal	229, 249, 250, 287, 295, 296, 307, 352, 355, 384, 404, 423
FEBS Letters	173
Future Virology	28
Human Vaccines	26, 188
Infection	37
Infection and Immunity	61, 143
Infection Genetics and Evolution	334
Inhalation Toxicology	95
International Journal of Cancer	35
International Journal of Neuroscience	160
International Journal of STD & AIDS	13
International Journal of Toxicology	44
ISA Abstract Archive	236, 270, 324
Journal of Acquired Immune Deficiency Syndromes	58
Journal of Autoimmunity	33
Journal of Cellular Biochemistry	178, 179
Journal of Cerebral Blood Flow and Metabolism	126
Journal of Clinical Epidemiology	146
Journal of Clinical Microbiology	83
Journal of Consulting and Clinical Psychology	1
Journal of Endodontics	219
Journal of Eukaryotic Microbiology	204
Journal of Gastroenterology and Hepatology	264
Journal of General Virology	88, 93
Journal of Head Trauma Rehabilitation	79
Journal of Immigrant and Minority Health	12
Journal of Immunology	87, 107
Journal of Infectious Diseases	7, 46, 97, 203
Journal of Materials Science-Materials in Medicine	168
Journal of Medical Entomology	43, 45, 63, 64, 157
Journal of Medical Primatology	127
Journal of Medicinal Chemistry	115
Journal of Neuroimmunology	132
Journal of Neuroinflammation	210
Journal of Neurophysiology	76
Journal of Neuroscience Methods	50
Journal of Neurotrauma	11, 18, 34, 75, 104, 123, 125, 220, 237, 266, 279, 297, 337, 356, 387, 388, 401, 416, 421
Journal of Occupational Health Psychology	199
Journal of Periodontal Research	130
Journal of Pharmaceutical and Biomedical Analysis	129
Journal of the American Association for Laboratory Animal Science	304
Journal of the American Mosquito Control Association	102
Journal of the California Dental Association	72
Journal of Thrombosis and Haemostasis	78
Journal of Trauma	155
Journal of Vector Borne Diseases	94
Journal of Vector Ecology	103
Journal of Veterinary Pharmacology and Therapeutics	27
Journal of Virology	4, 118, 144, 180, 184

- Laboratory Animals** 62
Life Sciences 189
Lupus 3
Malaria Journal 19, 51, 77, 216, 217
Medicine and Science in Sports and Exercise 114
Memorias Do Instituto Oswaldo Cruz 142
Methods in Enzymology 17
Methods in Molecular Biology 49
Microbes and Infection 10, 211
Microbiology and Immunology 186
Military Medicine 42, 89, 147, 154
Military Psychology 139
Molecular Pharmacology 36
Nature Medicine 200
Neurology 201
Neuroscience Meeting Planner 232, 293, 338, 345, 375, 389, 420
Neurotoxicology and Teratology 69
New England Journal of Medicine 80, 81, 167
Oasis Online Abstract Submission and Invitation System 233, 247, 261, 276, 288, 298, 309, 328, 332, 336, 346, 349, 350, 357, 360, 369, 370, 372, 380, 386, 393, 394, 411
Organic & Biomolecular Chemistry 214
Parasitology International 190
Peptides 52
Perceptual and Motor Skills 101
Pharmacology, Biochemistry, and Behavior 70, 175
PLoS Medicine 47, 121
PLoS Neglected Tropical Diseases 16, 174
PLoS One 14, 54, 86, 151, 164, 181
Proceedings of the National Academy of Sciences of the United States of America 5, 82, 202
Psychiatric Services 209, 212
Psychological Services 215
Retrovirology 224, 235, 238, 246, 265, 278, 280, 285, 286, 313, 320, 321, 343, 359, 363, 367, 376, 412, 414, 417
Scandinavian Journal of Infectious Diseases 48
Schizophrenia Bulletin 277, 415
Sexually Transmitted Diseases 196
Shock 185, 198
Sleep 100, 159, 166, 170, 275, 318, 319, 365
Social Psychiatry and Psychiatric Epidemiology 66, 213
Southeast Asian Journal of Tropical Medicine and Public Health 85, 148, 149, 172, 194
Substance Use & Misuse 195
Tissue Antigens 98, 105
Toxicology and Applied Pharmacology 32
Transactions of the Royal Society of Tropical Medicine and Hygiene 221
Transfusion 29, 137, 252, 253, 254, 255, 256, 257, 258, 259, 260, 283, 305, 306, 347, 368
Trends in Parasitology 84
Tropical Medicine & International Health 163, 327, 331, 366, 371, 403
U.S. Army Medical Department Journal 41, 59, 112, 122, 176
Vaccine 15, 20, 56, 67, 73, 96, 110, 128, 158, 162, 183, 192

- Veterinary Pathology** 205
Virology 108, 187
Virology Journal 24
Virus Research 191
Wound Repair and Regeneration 300
Zootaxa 169, 171

SUBJECT INDEX

SUBJECT INDEX

- 3' Untranslated Regions** 153
3-Oxoacyl-(Acyl-Carrier-Protein) Synthase 115
A-Wave Power 275
Accession Medical Standards 427, 428
Acetylcholinesterase 133
Acetylcholinesterase Reactivators 425
Acetylhydrolase 255
Acquired Immunodeficiency Syndrome 58, 200
Acute Toxicity Tests 261
Adaptation, Biological 109
Adaptation, Physiological 150
Adenoviridae 307
Adenoviridae Infections 83
Adenoviruses, Human 83
Adhesins, Bacterial 92
Adjuvants, Immunologic 20, 92, 181
Adverse Effects 233
Aedes 109, 364
Afghan Campaign 2001- 42
Afghanistan 66, 195, 213
Africa 200, 231, 268, 317, 361, 412
African Americans 146
African Continental Ancestry Group 98
Agriculture 111
AIDS Dementia Complex 201
AIDS Vaccines 56, 73, 135, 165, 167, 183, 224, 235, 236, 278, 280, 313, 317, 320, 367, 376
Algorithms 180, 197, 375
Alleles 98, 230
Alphavirus Infections 221
Altitude Sickness 90
Amastigote 386
Aminoglycosides 16
Aminoquinolines 113, 242
Amnion 34, 266
Amygdala 159
Anemia 7
Anemia, Hemolytic 211
Anesthesia 127
Annexin A4 107
Anopheles 63, 77, 102, 142, 169, 171, 335, 336, 364, 418
Anopheles marajoara 348
Anopheles triannulatus 325
Anoxia 90
Anthrax 146
Anthrax Vaccines 158
Anti-Arrhythmia Agents 89
Anti-HIV Agents 110, 111
Anti-Infective Agents 52, 130
Antibiotics 295
Antibodies 158
Antibodies, Bacterial 223
Antibodies, Monoclonal 2, 48, 107, 134, 414
Antibodies, Neutralizing 121, 135, 161, 165, 285, 343, 408, 409
Antibodies, Protozoan 19, 46, 143
Antibodies, Viral 121, 149, 161
Antibody Specificity 223
Antibody-Dependent Enhancement 121
Anticonvulsants 337
Antidotes 129
Antifungal Agents 349
Antigen Presentation 184
Antigen-Antibody Complex 151
Antigens, Bacterial 10, 141
Antigens, CD4 24
Antigens, Protozoan 54, 87, 128, 131, 162, 181, 226, 393
Antileishmanials 381
Antimalarials 38, 40, 71, 74, 113, 115, 119, 120, 150, 214, 216, 234, 241, 242, 291, 301, 314, 327, 331, 332, 334, 346, 353, 372, 378, 379, 392, 422
Antimicrobial Cationic Peptides 72
Antimicrobial Peptides 117
Antimony Sodium Gluconate 233
Antiprotozoal Agents 174
Antiretroviral Therapy, Highly Active 110, 201
Antirheumatic Agents 48
Apical Membrane Antigen-1 284, 290
Apicomplexa 204
APOBEC 412
Apoptosis 20, 125
Arachnid Vectors 55
Arboviruses 45
Arcobacter 140
Argentina 12
Arousal 99, 170

- Artemisinins** 74, 119, 120, 216, 217, 241, 329, 330, 332, 351, 380, 385, 405, 407
Arthritis, Reactive 67
Arthritis, Rheumatoid 48
Arthropod Vectors 309
Asia 378
Asia, Southeastern 361
Aspartic Acid 232
Assays, Rapid 344
Astrocytoma 2
Astroviridae Infections 93
Atropine 89
Atropine Derivatives 32
Attention 170
Autoimmune Diseases 3, 57
Azerbaijan 271, 272
B-Lymphocytes 33
Bacillus anthracis 10, 352
Bacillus subtilis 219
Bacterial Proteins 141
Bacterial Toxins 10
Bacterial Typing Techniques 140
Bacteroidaceae Infections 218
Bandages 168
Bartonella 8
Bartonella Infections 8
Basement Membrane 133
bcl-2-Associated X Protein 20
bcl-X Protein 20
Behavior, Animal 70
Belize 112
Benzhydryl Compounds 100
beta-Defensins 130
Bile Ducts 205
Biofilms 218, 300
Biological Markers 220
Bioscavengers 249
Biosurveillance 197
Bioterrorism 39
Bipolar Disorder 415
Blast Injuries 11, 18, 104, 123, 297, 345, 401, 404
Blood 249, 283, 364
Blood Bactericidal Activity 223
Blood Cells 137
Blood Donors 368, 396
Blood Platelets 149, 256, 305, 306
Blood Preservation 137, 253, 254, 255, 256, 257, 259, 260, 305, 306
Blood Substitutes 185
Blood-Brain Barrier 250
Body Composition 147
Body Protection 297
Botulinum Toxin Type A 423
Botulinum Toxins 178, 179, 222, 229
Botulism 182, 222
Brain 50, 82, 104, 123, 160
Brain Injuries 11, 18, 34, 75, 79, 104, 123, 125, 175, 185, 210, 220, 237, 266, 279, 345, 356, 387, 388, 389, 401, 404, 416, 420, 421
Brain Ischemia 49, 126, 337
Breast Neoplasms 2
Brucella melitensis 10
Brucella Vaccine 10
Burns 3
Buruli Ulcer 207, 208
Butyrylcholinesterase 36, 65, 189
Caffeine 17, 100, 319
Calpain 420
Cambodia 241, 309, 332, 380, 382, 385, 407
Campylobacter Infections 145
Campylobacter jejuni 145
Carcinoma, Ductal, Breast 2
Cardiovascular System 89
Caspase 3 173
Cataplexy 159
Catheterization, Central Venous 62
Cation Transport Proteins 61
CD4 Lymphocyte Count 110, 294
CD4-Positive T-Lymphocytes 57, 183, 339, 359
CD8-Positive T-Lymphocytes 68, 86, 183, 311, 323, 359
Cell Membrane 253, 255, 257
Cell Nucleus 88
Central Nervous System Stimulants 100
Cercopithecus aethiops 205
Cerebral Cortex 76
Chalcones 71
Chemical Warfare 27
Chemical Warfare Agents 32, 36, 69, 70
Chemokine CCL5 211
Chemokine CXCL13 33
Chemokines 414
Chemokines, CC 200
Chikungunya virus 221, 247
Chitinase 190
Chlorzoxazone 316
Cholera 268
Cholinergic Antagonists 27

- Cholinesterase Inhibitors** 36, 50, 70
Cholinesterase Reactivators 250
Chromatography, High Pressure Liquid 296
Chronic Periodontitis 218
Circadian Rhythm 17, 316
Climate 303
Clindamycin 379
Clinical Competence 116
Coccidiostats 346
Cognition 201, 279, 388
Cognition Disorders 100
Cognitive Therapy 1
Collagen 266
Colombia 335
Combat Disorders 1, 215
Communicable Disease Control 41, 59
Communicable Diseases 42, 271, 426
Communicable Diseases, Emerging 197
Comorbidity 209
Computer Simulation 166
Congo 46
Continuity of Patient Care 212
Contractile Proteins 2
Cortical Spreading Depression 75, 76
Cross Reactions 161
Cryopreservation 329
Culex 322
Culicidae 45, 64, 112, 169, 171, 176, 289, 326, 335, 344, 348, 406, 418
Cytochrome P450 372
Cytochromes 316
Cytokines 88, 210
Cytosol 88
Decoquinate 346
DEET 112
Deglutition Disorders 25
Demography 47
Dendritic Cells 28, 88, 187
Dengue 47, 149, 153, 192, 193, 203, 227, 248, 274, 369, 395, 399, 408, 409
Dengue Hemorrhagic Fever 121, 191, 369, 399
Dengue Vaccines 188, 192, 276, 403
Dengue Virus 4, 28, 88, 109, 121, 149, 153, 187, 188, 191, 203, 239, 243, 344, 395, 399, 408, 409
Dental Plaque 72, 117
Deoxo-imidazolidinedione 340
Department of Defense 182
Developing Countries 136
Dextroamphetamine 100
Dextromethorphan 175
Diagnostic Imaging 18
Diarrhea 156, 244
Diazepam 338
Diet 308
Dihydrolipoic Acid 173
Dimethyl Sulfoxide 305, 306
Diphtheria Toxoid 132
Disease Models, Animal 145
Disease Outbreaks 5, 37, 39, 83, 136, 221, 268
Disease Progression 206
Disease Vectors 42
Disorders of Excessive Somnolence 170
District of Columbia 146
DNA, Viral 201
Dogs 27
Down Syndrome 60
Drug Delivery Systems 222
Drug Evaluation, Preclinical 40
Drug Prescriptions 212
Drug Resistance 38, 334, 380, 405
Drug Resistance, Multiple 150
Duffy Blood-Group System 206
Dysentery, Amebic 85
Dysentery, Bacillary 67, 91
Ecosystem 41
Electroencephalography 76, 160, 237, 293, 365
Embryo Loss 120
Embryo, Mammalian 120
Emergency Medical Services 39
Emigrants and Immigrants 12
Employee Discipline 199
Employee Performance Appraisal 199
Employment 111
Encephalitis 125, 210
Encephalitis, Japanese 228
Endemic Diseases 46
Energy Metabolism 159
Entamoeba histolytica 85
Entecavir 264
Enterotoxins 22
env Gene Products, Human
Immunodeficiency Virus 148
Environment, Controlled 101
Enzyme-Linked Immunosorbent Assay 124, 131, 377
Epinephrine 60, 90
Epithelial Cells 4, 186

- Epitopes** 135, 238, 284, 343
Epitopes, B-Lymphocyte 87
Epitopes, T-Lymphocyte 68, 194
Epstein-Barr Virus Infections 362
Erythrocytes 14, 19, 29, 31, 194, 252, 253, 254, 255, 256, 257, 258, 259, 260, 347
Escherichia coli 15, 281
Esophagitis 25
Ethanolamines 373
Europe 200
Evoked Potentials 160
Executive Function 318
Exercise 89, 114
Exercise Test 60
Exercise Tolerance 114
Eye Diseases 113
Factor VIIa 78
Fatigue 17
Feces 85, 93, 186
Fetal Resorption 120
Fever of Unknown Origin 360, 411
Fibrinogen 96, 168
Fibroblasts 4
Fibrosis 264
Filtration 29
Flagellin 141
Flow Cytometry 419
Fluorenes 74, 373
Folic Acid Antagonists 234
Frontal Lobe 175
Functional Laterality 101
Gambia 26
Gastroenteritis 93, 118
Gene Dosage 200
Gene Expression 287
Gene Expression Profiling 218, 352
Gene Products, env 108
Gene Transfer 307
Genes, env 108
Genes, MDR 74
Genes, tat 148
Genetic Predisposition to Disease 7, 200
Genetic Variation 4, 6, 8, 361
genetics 141
Geographic Information Systems 64
Geography 63, 303
Georgia (Republic) 37, 106, 273
Germany 199
Gingiva 130
Glucose-6-Phosphate Dehydrogenase 358, 374
GP41 Peptide 343
Great Britain 180
Guanine 264
Hantavirus Infections 106
Haplotypes 98
Head Injuries, Closed 11
Head Injuries, Penetrating 175, 210, 237, 266, 356, 387, 388, 389, 416, 421
Health Care Facilities, Manpower, and Services 271
Health Policy 212
Health Services Accessibility 212
Health Status 158
Health Surveys 415
Hemagglutination 52
Heme Oxygenase-1 421
Hemeproteins 211, 327
Hemoglobins 185
Hemolysis 255, 358, 374
Hemorrhage 78, 185, 198
Hemostatics 168
Hep G2 Cells 173
Heparin 4
Hepatitis A 172
Hepatitis Antibodies 163
Hepatitis B 264
Hepatitis B Antibodies 110
Hepatitis B Vaccines 110
Hepatitis E 172
Hepatitis, Viral, Human 163
Hepatocytes 329
Herpes Genitalis 13
Herpes Simplex 25
Herpesvirus 1, Human 25
High-Intensity Focused Ultrasound 345
High-Throughput Screening Assays 174, 261
Histidine Affinity Tags 315
Histocompatibility Antigens Class I 68, 98, 105
HIV 201, 280, 320, 368, 396, 412
HIV Antibodies 165, 180, 238
HIV Core Protein p24 183, 184
HIV Infections 6, 13, 14, 23, 30, 56, 73, 108, 110, 111, 144, 146, 148, 167, 180, 184, 196, 200, 206, 265, 270, 286, 294, 320, 321
HIV-1 6, 14, 24, 30, 56, 58, 68, 73, 108, 134, 135, 144, 148, 165, 167,

- 180, 184, 200, 206, 224, 235, 236, 238, 246, 265, 270, 278, 285, 286, 317, 321, 324, 359, 363, 371, 376, 417
- HLA Antigens** 203
- HLA-A Antigens** 194, 321
- HMGB1 Protein** 88
- Homosexuality** 324
- Hormones** 89
- Hospitalizations** 228, 382
- Hospitals** 227
- Hospitals, Teaching** 116
- Huperzine A** 296
- Hypothalamus** 159
- Hypothermia, Induced** 416, 421
- Imidazolidinedione** 391
- Imidazolidines** 331
- Immunity** 168, 230, 240, 281, 339
- Immunity, Cellular** 22
- Immunity, Innate** 51
- Immunoassay** 84
- Immunoglobulin G** 132
- Immunoglobulins** 189, 366
- Immunoglobulins, Intravenous** 161
- Immunosuppression** 355
- Immunosuppressive Agents** 48
- India** 108
- Indian Ocean Islands** 221
- Inflammation** 295
- Inflammation Mediators** 130
- Influenza A virus** 383, 390
- Influenza A Virus, H1N1 Subtype** 357
- Influenza A Virus, H5N1 Subtype** 161, 186, 366
- Influenza B virus** 383, 390
- Influenza, Human** 152
- Inhalation Exposure** 32, 44, 69, 95
- Injections, Intramuscular** 120
- Injections, Intravenous** 120
- Insect Repellents** 55, 103, 112, 176, 413
- Insect Vectors** 43, 45, 63, 94, 103, 109, 157, 231, 289, 322, 325, 344, 348, 364, 406
- Insecticide-Treated Bednets** 103, 288
- Insecticides** 103, 333, 413
- Interferon-alpha** 191
- Interferon-gamma** 194
- Interleukin-10** 211
- Interleukin-15** 323
- Interleukin-17** 57
- Interleukin-2** 339
- Interleukin-8** 130
- Intestinal Mucosa** 107
- Intestines** 33, 57
- Intramolecular Oxidoreductases** 7
- Iraq** 43, 66
- Iraq War, 2003 -** 1, 42, 139, 155, 158
- Iron** 61
- Ischemia** 33, 57, 107, 177, 220
- Italy** 199
- Jejunum** 177
- Jugular Veins** 62
- Kathmandu** 390
- Kenya** 5, 6, 45, 51, 94, 111, 151, 164, 176, 207, 243, 245, 303, 308, 322, 334, 357, 360, 383, 384, 392, 396, 411
- Ketamine** 127, 338
- Kidney Diseases** 113
- Kidney Failure** 106
- Killer Cells, Natural** 58, 286
- Kinetics** 316
- Korea** 38, 63, 102, 154
- Laboratories** 23, 59, 152
- Lactate Dehydrogenases** 131
- Latin America** 142
- Leishmania** 43, 283, 333, 349, 350
- Leishmania major** 16, 174, 225, 298, 386
- Leishmania tropica** 298
- Leishmaniasis, Cutaneous** 16, 174, 225, 233, 350, 381
- Leprostatic Agents** 9
- Leprosy** 9
- Leptospirosis** 154, 273
- Leukocytes** 256
- Leukocytes, Mononuclear** 246, 352, 417
- Leukofiltration** 252, 253, 254, 258, 259, 260
- Lipid A** 181, 183
- Lipids** 134
- Lipopolysaccharides** 92
- Liposomes** 183, 238, 343
- Liver** 84, 311
- Liver Cirrhosis** 205, 264
- Liver Diseases** 86
- Lumefantrine** 373
- Lupus Erythematosus, Systemic** 3
- Lymphocyte Activation** 86
- Lymphotoxin-alpha** 203, 395
- Macaca mulatta** 162

- Macrolides** 295
Macrophage Migration-Inhibitory Factors 7
Macrophages 28, 414
Magnetic Resonance Imaging 365
Magnetic Resonance Spectroscopy 159
Malaria 23, 31, 54, 63, 86, 87, 94, 122, 143, 164, 190, 291, 311, 348, 353, 354, 362, 364, 382, 396, 411, 418, 424
Malaria Vaccines 15, 20, 26, 31, 54, 86, 87, 97, 128, 151, 162, 164, 181, 202, 226, 263, 267, 284, 290, 299, 312, 339, 397, 398, 400, 402, 410
Malaria, Falciparum 7, 26, 29, 51, 74, 84, 97, 128, 131, 181, 194, 211, 241, 380, 385, 407
Malaria, Vivax 15, 46
Mali 402
Mamastrovirus 93
Mammalian Hosts 309
Mammals 154
Mass Balance 217
Mastoparan-7 423
Maze Learning 69, 388
Medetomidine 127
Medicaid 212
Mefloquine 214, 262, 354
Membrane Proteins 128, 162, 181
Meningococcal Infections 223
Meningococcal Vaccines 96
Mental Disorders 66, 212, 213
Mental Health Services 66, 213
Merozoite Surface Protein 1 51, 143, 151, 162, 230, 315, 354
Metabolic Rate 114
Metabolome 340
Methamphetamine 232
Methemoglobin 242
methods 62
Microfilament Proteins 2
Microfilaments 177
Microparticles 260
Microsatellite Repeats 83
Microscopy 419
Middle East 41
Military Attrition 147
Military Medicine 11, 18, 59, 80, 81, 103, 154, 215, 279, 299, 309, 370, 387, 389, 427, 428
Military Personnel 1, 13, 42, 43, 66, 79, 110, 122, 139, 147, 152, 155, 163, 199, 213, 215, 248, 277, 302, 333, 355, 370, 426
Military Psychiatry 213
Military Research 426
Mirincamycin 291, 379
Models, Animal 291
Models, Biological 41, 166, 198
Models, Theoretical 47
Monkey Diseases 205
Monocytes 211, 295
Mosquito Control 64
MosquitoMap 289
Mozambique 97
Multigene Family 98
Multiple Sclerosis 132
Multipotent Stem Cells 34
Muscarinic Antagonists 21
Mustard Gas 295, 307
Mutation 4
Myanmar 85, 309
Mycobacterium Infections, Atypical 48
Mycobacterium marinum 48
Mycobacterium ulcerans 207
N-acetylaspartate 232
Na-1 387
Nanoparticles 87, 312
Naphthyridines 373
Narcolepsy 159
Nefiracetam 337
Neisseria meningitidis 223
Neoplasms 35
Neoplasms, Germ Cell and Embryonal 35, 138
Nepal 53, 172, 244
Nerve Degeneration 34
Nerve Net 82
Nerve Tissue Proteins 49
Nettings 333
Neural Cell Adhesion Molecules 420
Neurobehavioral Manifestations 389
Neuromuscular Junction 133
Neurons 178, 179, 423
Neuropathological Analysis 375
Neuropathology 297
Neuroprotective Agents 125, 126, 175, 210, 296
Neuropsychological Tests 100
Neutralization Tests 165, 193
Neutropenia 241
Neutrophils 252, 258, 347
Nigeria 74

- Night Vision** 113
Nitric Oxide 173, 307
Norepinephrine 60, 90
Nutritional Status 308
Off-Label Use 78
Oils, Volatile 55
Oligopeptides 125, 126, 210
Organophosphorus Compounds 292, 293
Orientia tsutsugamushi 157
Oximes 129, 250
Oxygen 356
P43 pro-EMAPII 220
Pain 116
Panama 335
Papua New Guinea 77
Parasitic Sensitivity Tests 40, 174
Parasympatholytics 32
Particle Size 422
Patient Discharge 209
Patient Selection 146
Peptide Inhibitors 229
Peptides 52, 87
Periapical Periodontitis 219
Peru 30, 288, 299
Pharmacokinetics 217
Philippines 9, 227, 228, 274
Phosphines 179
Phospholipids 257, 260
Phylogeny 108
Physical Fitness 147
Physician-Patient Relations 116
Physostigmine 27
Picornaviridae 118
Picornaviridae Infections 118
Piperazine 373
Plague Vaccine 141
Plant Oils 55
Plaque Assay 193
Plasma 384
Plasmodium 31
Plasmodium berghei 20, 86, 87, 240, 281, 311, 314, 323, 419
Plasmodium cynomolgi 291
Plasmodium falciparum 19, 26, 29, 40, 51, 71, 74, 77, 84, 97, 115, 131, 143, 150, 162, 194, 202, 234, 240, 263, 282, 284, 290, 301, 312, 314, 315, 327, 332, 334, 336, 361, 377, 379, 380, 393, 394, 396, 397, 398, 400, 405, 407
Plasmodium knowlesi 394
Plasmodium vivax 15, 38, 77, 190, 234, 251, 269, 299, 332, 336, 341, 361, 410
Plasmodium yoelii 314
Platelet Activating Factor 253, 255, 256, 259
Platelet Function Analyzer 306
Platelet Transfusion 155
Polymerase Chain Reaction 77, 85, 105, 283
Polymorphism, Genetic 68, 83, 298
Population Surveillance 39, 46, 59, 136, 152, 172, 370
Pore Forming Cytotoxic Proteins 141
Porphyromonas gingivalis 52
Positron-Emission Tomograph 160
Post-Concussion Syndrome 80, 81
Pregnancy 287, 330
Pregnancy Complications 156
Premature Birth 287
Prevotella intermedia 218
Primaquine 310, 358, 374
Promoter Regions, Genetic 206
Propionates 21
Prostitution 12, 196
Proteasome Endopeptidase Complex 184
Protein Kinase Inhibitors 71
Protein Processing, Post-Translational 179
Proteomics 49
Protozoan Proteins 20, 71, 128, 131, 162, 181, 263, 397
Psychodidae 43, 204, 288, 333, 413
Psychomotor Performance 99, 166, 170, 318
Psychotherapy, Brief 1
Psychotherapy, Group 1
Psychotropic Drugs 212
Public Health 39, 221
Punctures 62
Pyridostigmine Bromide 296
Pyronaridine 373
Pyrrolidinones 337
Quantitative Structure-Activity Relationship 21
Quantum Theory 21
Quinine 332
Quinolines 353, 373, 374
Rabies Vaccines 402
Reagent Kits, Diagnostic 42

- Receptors, CCR3** 144
Receptors, Cell Surface 206
Receptors, CXCR5 33
Receptors, Formyl Peptide 144
Receptors, HIV 24
Receptors, KIR2DL2 105
Receptors, KIR2DL3 105
Receptors, KIR3DL1 105
Receptors, KIR3DS1 105
Receptors, Lipoxin 144
Receptors, Virus 144
Recombinant Proteins 24, 78
Recovery of Function 125
Recruits 427, 428
Relaxation 375
Reperfusion Injury 33, 57, 107, 177
Republic of Korea 169
Research 59
Research Design 313
Research Personnel 378
Respiratory Mechanics 95
Resuscitation 185
Reverse Transcriptase Polymerase Chain Reaction 282
Rickettsia 309
Rift Valley Fever 5, 45, 231, 303
Rift Valley fever virus 45, 406
Risk Factors 303
Risk-Taking 319
RNA, Viral 149
Rodent Diseases 8
Rodentia 8
Rural Population 6
Salmon 168
Saponins 181
Sarin 32, 44, 70
Schizophrenia 209, 277, 415
Scopolamine 27
Scrub Typhus 154
Seasons 102, 154
Seizures 126, 292, 293, 337, 338
Selection (Genetics) 74
Sex Factors 111
Shati 232
Shigella 92
Shigella flexneri 61, 342
Shigella sonnei 342
Shigella Vaccines 67, 91
Shock, Hemorrhagic 155
Signal Processing, Computer-Assisted 50, 76
Skin Diseases, Bacterial 48
Skin Injuries 307
Sleep 82, 101, 160, 275, 365
Sleep Deprivation 17, 99, 100, 166, 170, 318, 319
Small Molecule Libraries 174
Smoke 130
Socioeconomic Factors 111, 308
Software 198
Somalia 5
Soman 36, 50, 65, 69, 95, 338
South America 325, 361
Sporozoites 269, 312
Sporozoites, Irradiated 311
Squalene 158
Staphylococcus aureus 300
Stress Disorders, Post-Traumatic 139, 302
Stress, Psychological 116, 139, 199, 355
Students, Nursing 163
Substance Abuse Treatment Centers 195
Substance Abuse, Intravenous 195
Substance-Related Disorders 12
Subtilisins 19
Surgical Procedures, Minimally Invasive 62
Sus scrofa 22
Systems Biology 328
T-Lymphocytes 192, 224
Tanzania 5, 224, 321, 371
Testicular Neoplasms 35, 138
Tetanus Toxoid 132
Tetracycline 332
Tetrahydrofolate Dehydrogenase 234
Thailand 8, 47, 85, 109, 149, 150, 153, 163, 167, 180, 191, 194, 201, 203, 239, 247, 270, 280, 309, 313, 320, 324, 367, 370, 395, 409, 426
Thoracic Injuries 123
Thrombelastography 306
Thrombin 168
Time Factors 97
Tinidazole 341
Tissue Distribution 217
Tobacco 130
Topiramate 237
Travel 172
Treatment Outcome 233
TRIM5 412
Trombiculidae 55, 157
Tuberculosis 23, 328

- Tularemia** 37
Tumor Necrosis Factor 395
Tumor Necrosis Factor-alpha 203
Typhus, Endemic Flea-Borne 154
Ubiquitinated Proteins 178
Uganda 58, 98, 285, 286
United States 39, 42, 43, 66, 80,
81, 83, 89, 103, 112, 147, 152,
154, 158, 182, 197, 209, 212,
213, 248, 269
Urinary Catheterization 304
Uzbekistan 196, 342
Vaccination 67
Vaccines, Attenuated 188, 202
Vaccines, DNA 20, 92, 236, 317
Vaccines, Inactivated 91
Vaccines, Subunit 91
Vaccines, Synthetic 15
Vaccinia virus 56, 73
Valproic Acid 292
Veterans 80, 81
Vietnam 143
Viral Load 371
Viral Vaccines 4
Virulence Factors 61
Virus Attachment 191
Virus Diseases 12
Virus Internalization 144
Virus Replication 88, 187, 191
Vitamin A Deficiency 245
Wakefulness 170
War 11, 18, 66, 80, 81, 104, 123, 213
Weaning 22
West Nile Fever 124
West Nile virus 322
Workload 199
World Health 23, 289
Wound Healing 3, 168, 300, 307
WR299666 422
WR319538 372
Zinc 384
Zoonoses 272

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